TELAAH SCIMAGOJR

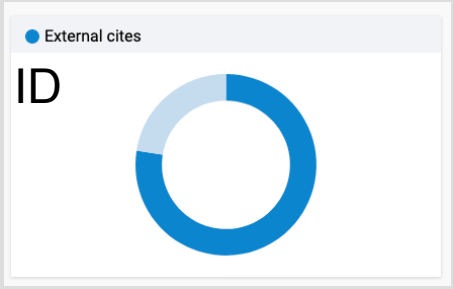
Oleh:
Dasapta Erwin Irawan
Institut Teknologi Bandung, RINarxiv

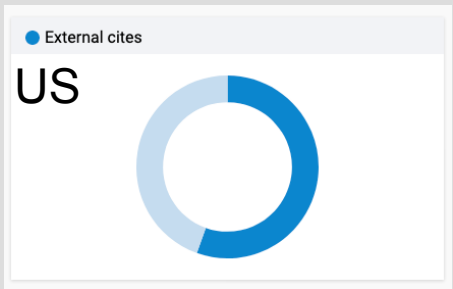
Metode

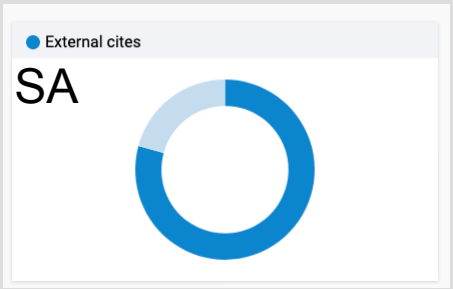
- Scimagojr.com
- Menu “Viztools”
- Eksplorasi data

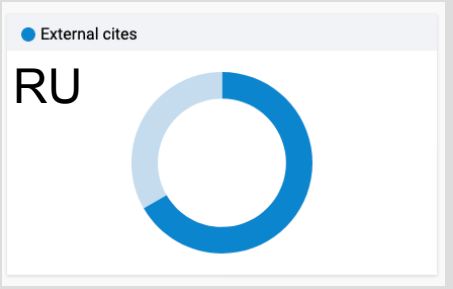
Country graph

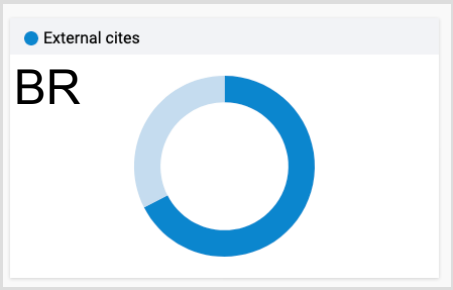
Self vs external cites

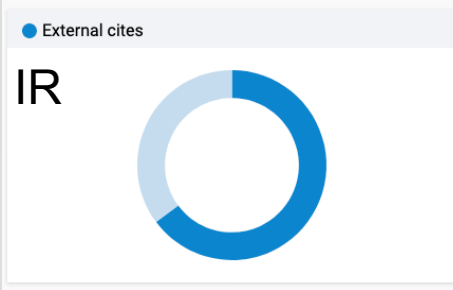


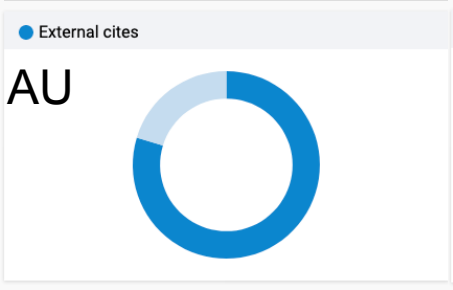


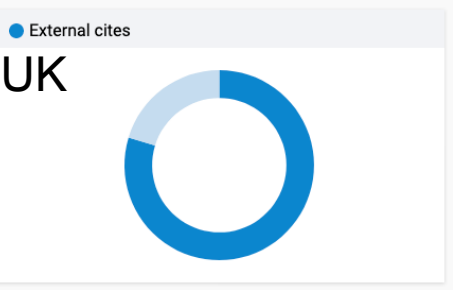


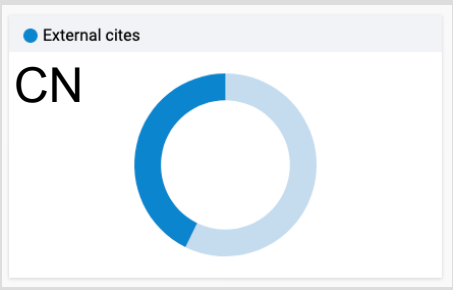


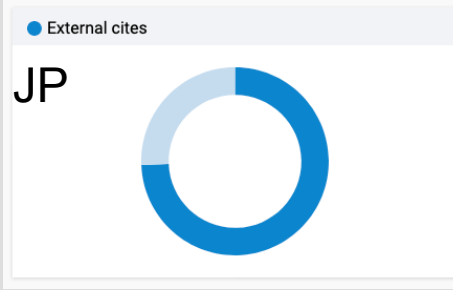


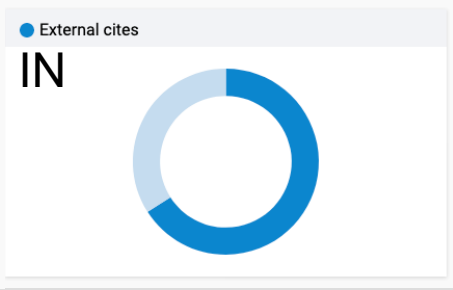


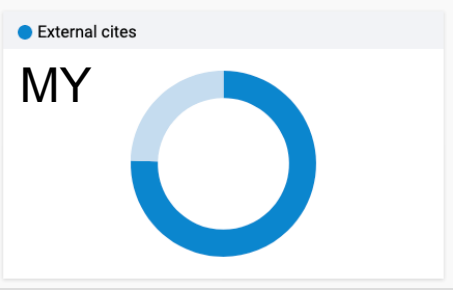




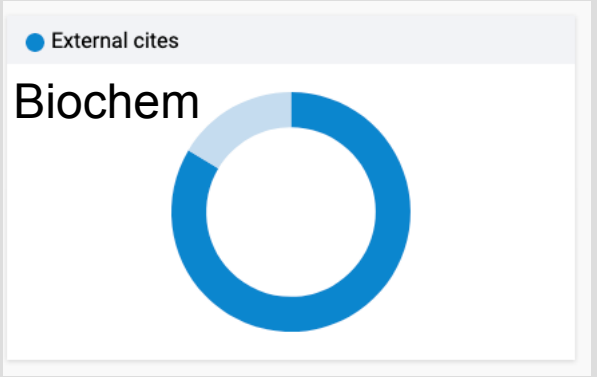


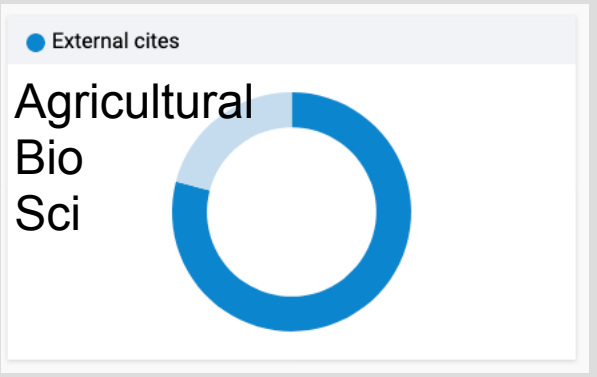


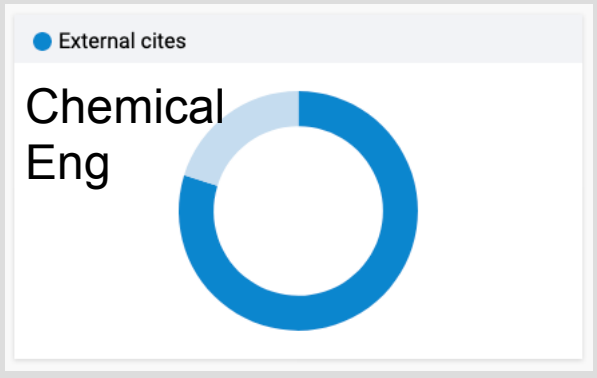


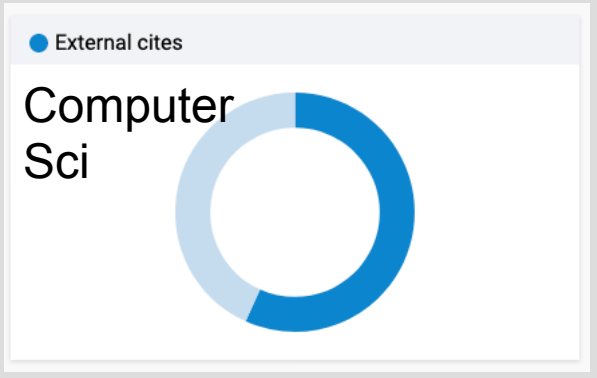


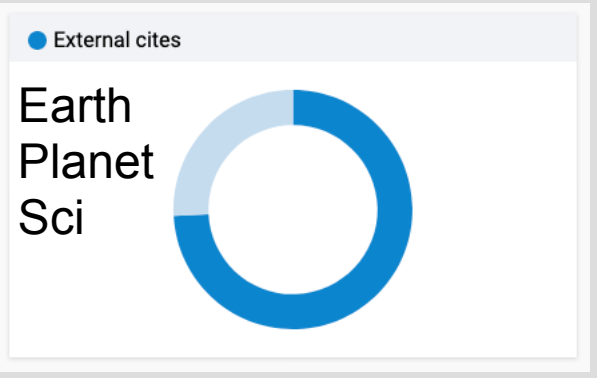
Self vs external cites dari Indonesia pada berbagai kategori

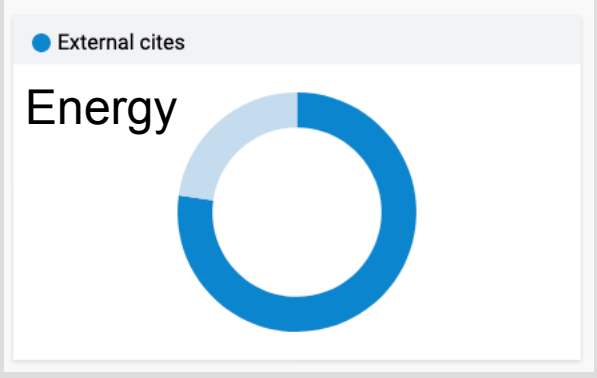


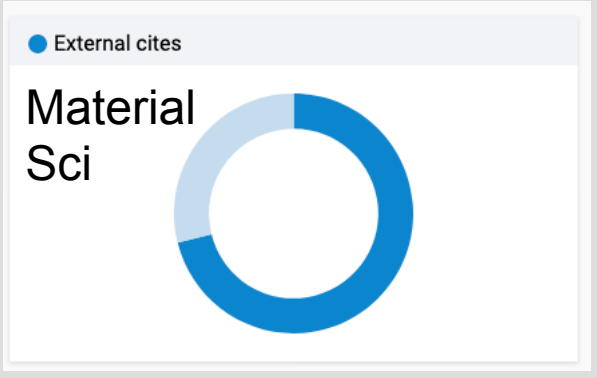


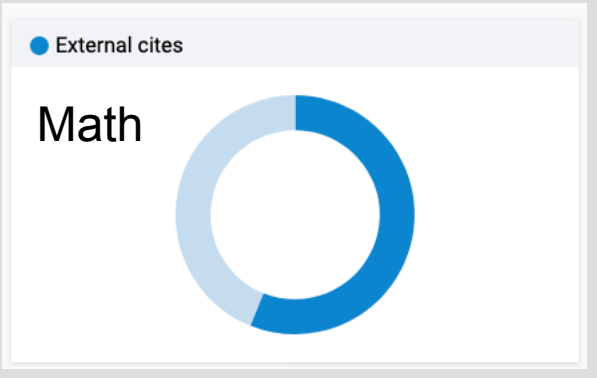


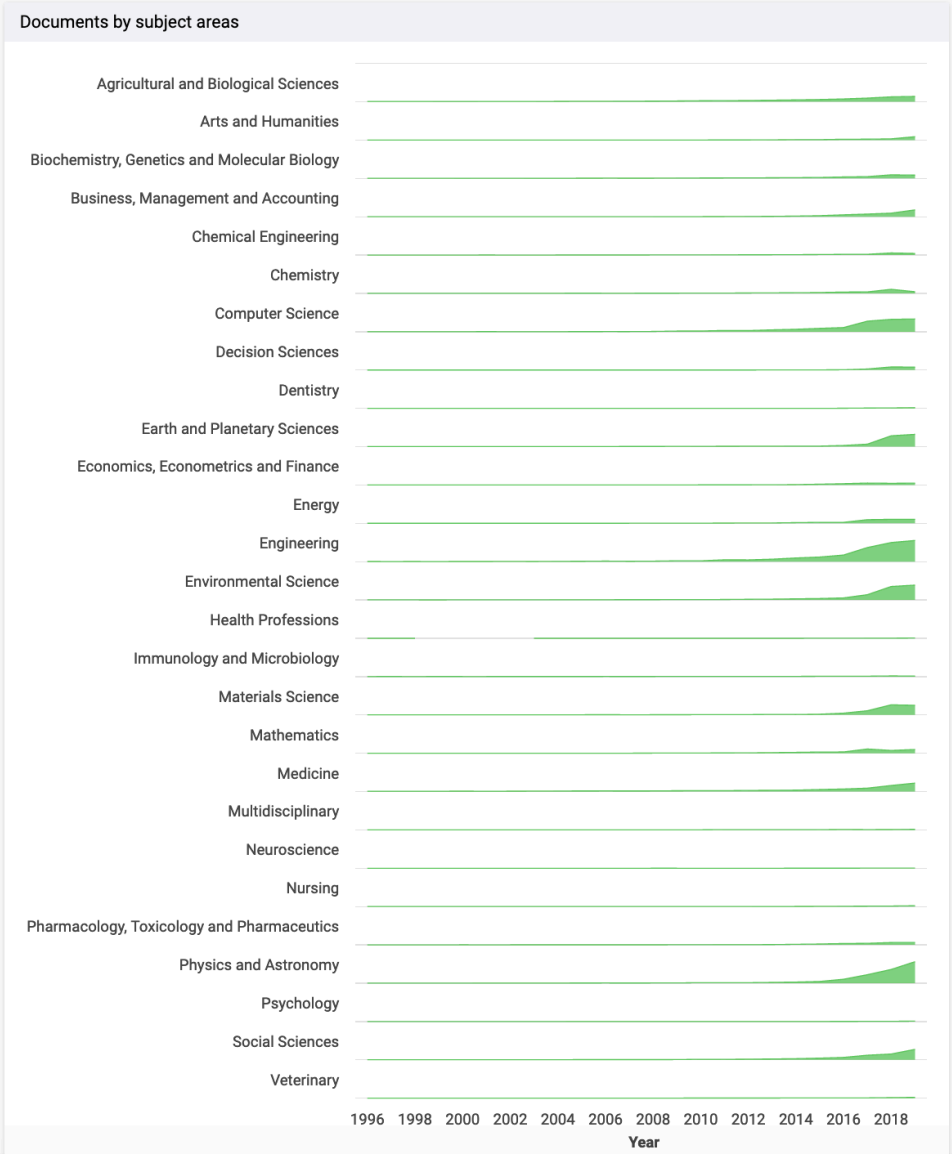












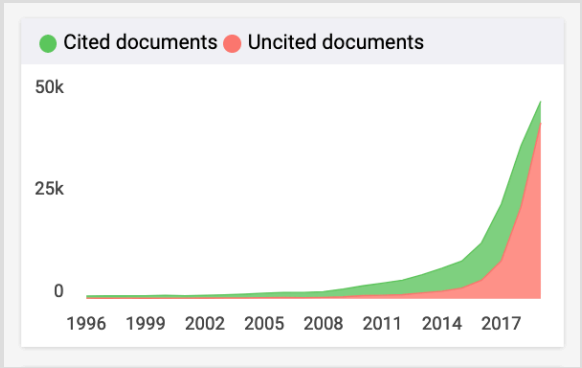
Docs by subject areas

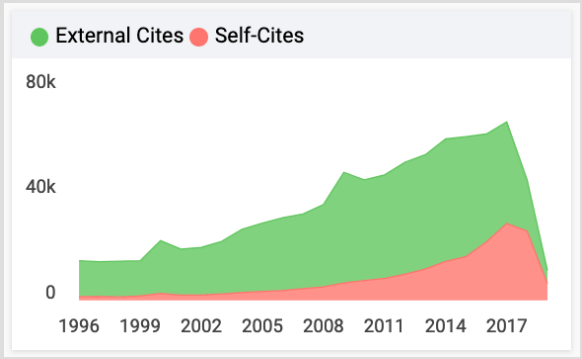
Menunjukkan perkembangan jumlah docs per subject areas tahun 1996-2020

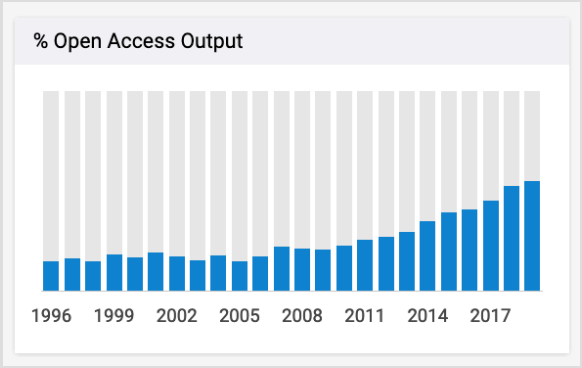
Ada yang berkembang sejak lama (seperti engineering, computer science)

Ada yang belakangan (seperti earth and planetary sciences, energy, physics and astronomy)

Banyak juga yang stagnan (seperti matematika, arts and humanities, agricultural biological sciences)





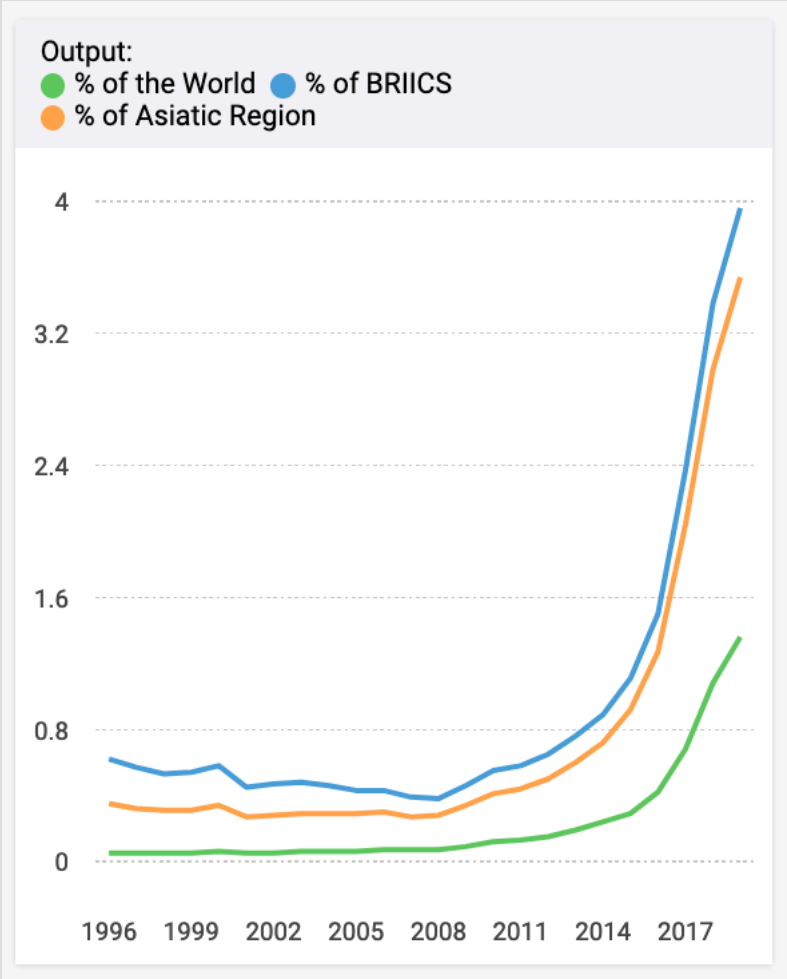


Citations

Jumlah totalnya mengalami peningkatan yang ditandai dengan “tekuk lereng”/ *slope break* (istilah geomorfologi) pada tahun 2008 (1294), 2012 (3288), 2015 (6106), 2016 (8446).

Jumlah external cites dan selfcites meningkat secara proporsional dengan *spike* terjadi di tahun 2000, 2009 dan 2014. Penyebab?

Peningkatan jumlah sitasi (sepertinya) berhubungan dengan peningkatan jumlah dokumen berjenis OA.

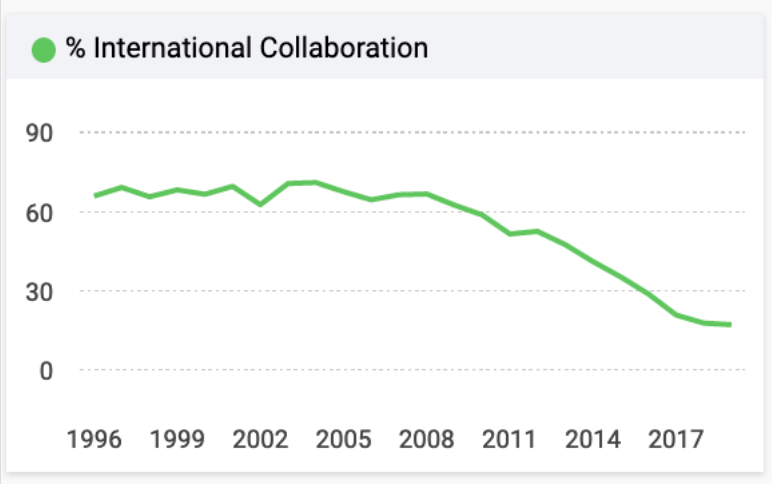


Proporsi luaran

Pada tahun 2008 = 0,07% dunia dan 0,28% asiatik

Pada tahun 2019 = 1,36% dunia dan 3,54% asiatik

% kolaborasi internasional



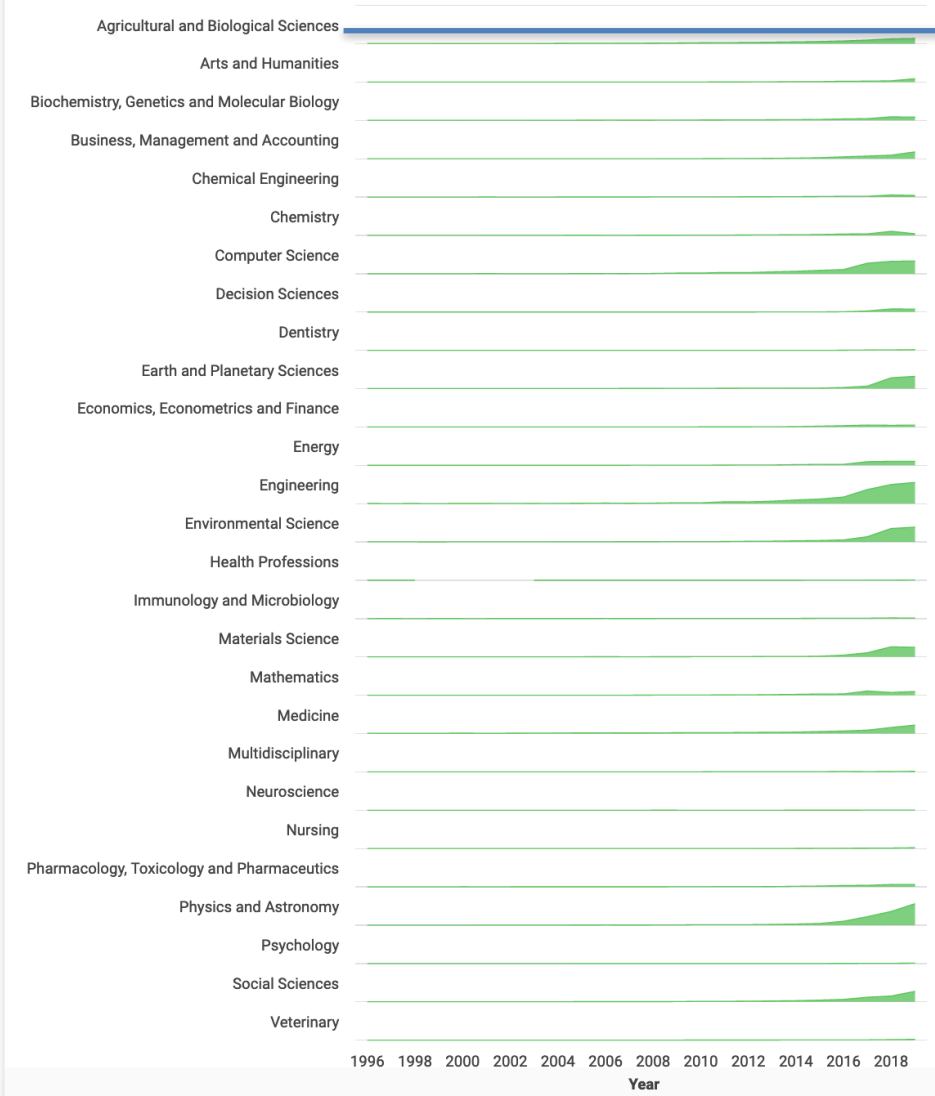
Menunjukkan % dokumen yang ditulis bersama dengan penulis dari negara lain.

Menurun. Penyebab?

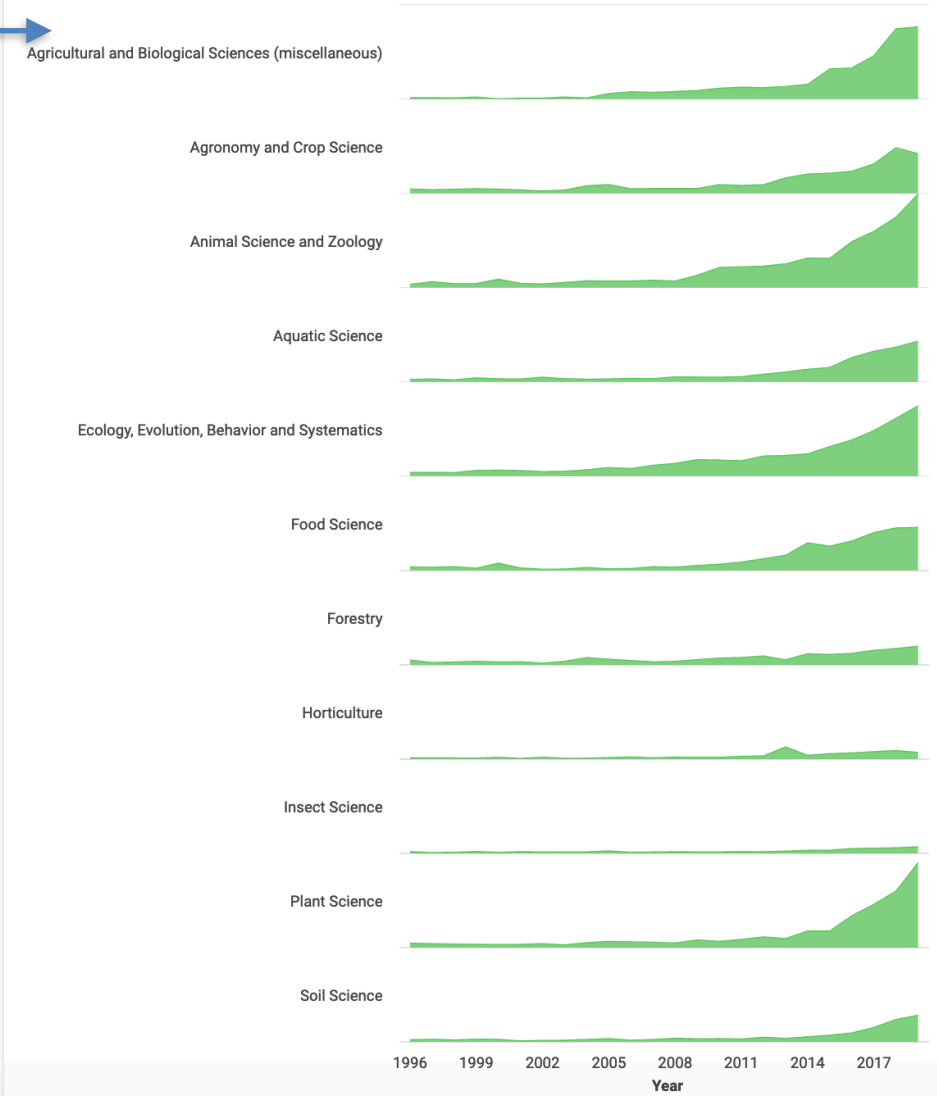
Sekarang kita bandingkan dengan kondisi pada beberapa subject area

Agricultural and biological sciences

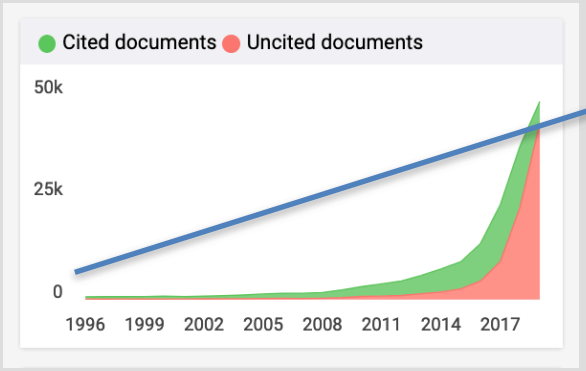
Documents by subject areas

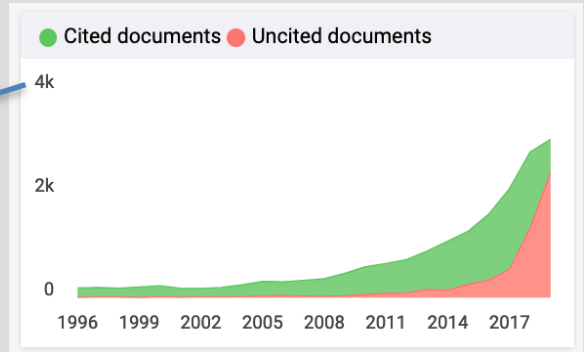


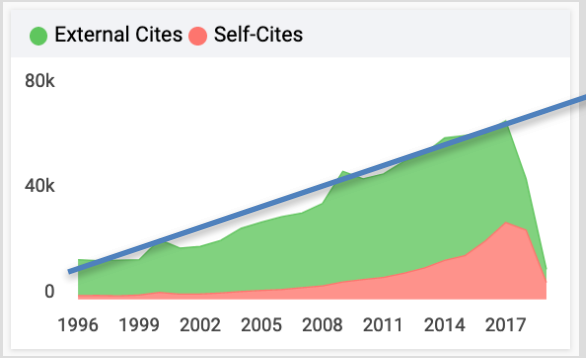
Documents by subject categories

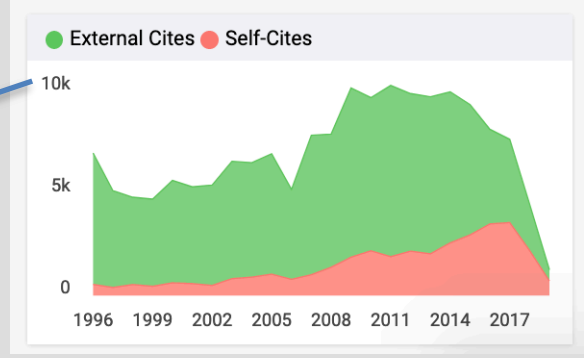


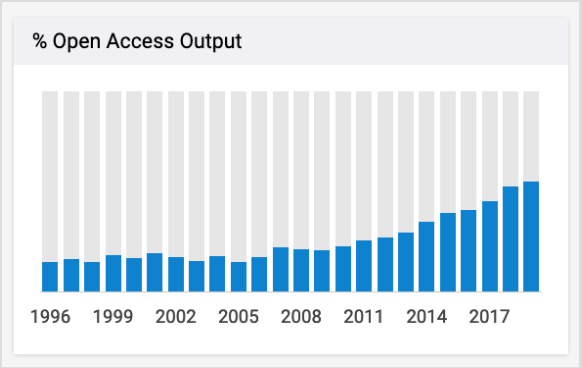
Citations

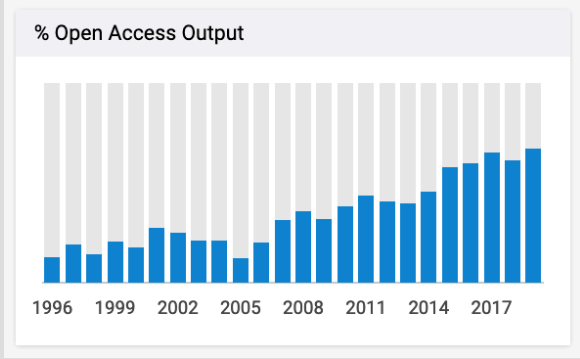

Cited documents
Uncited documents
50k
25k
0
1996 1999 2002 2005 2008 2011 2014 2017

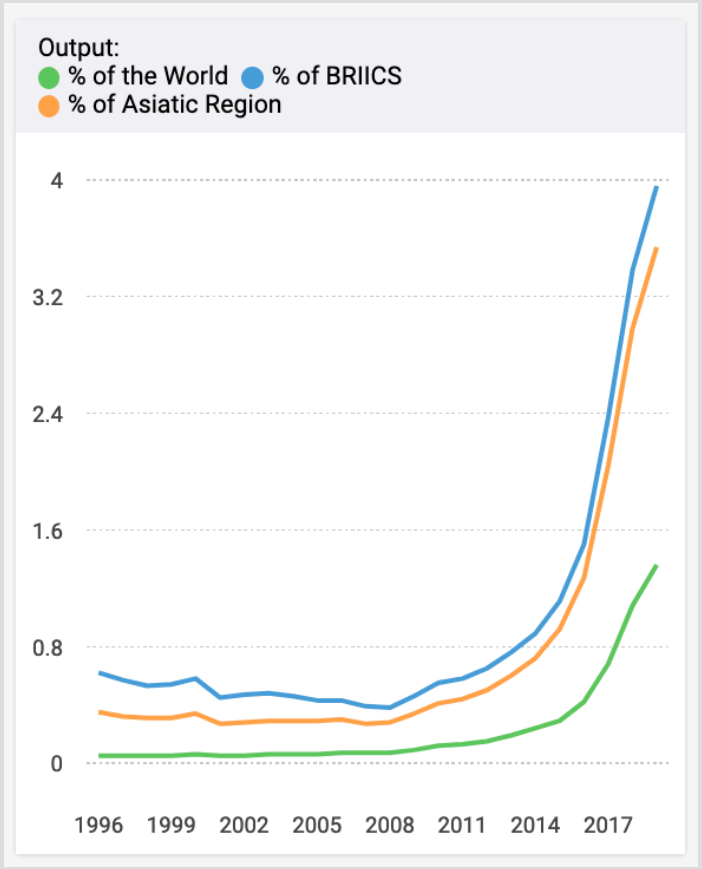

Cited documents
Uncited documents
4k
2k
0
1996 1999 2002 2005 2008 2011 2014 2017

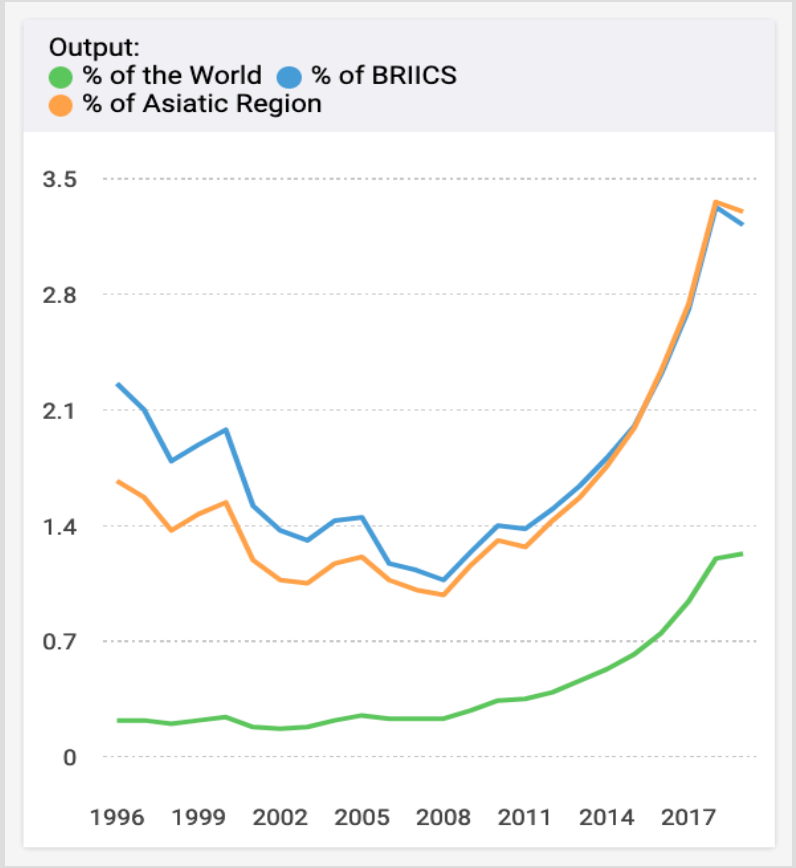

External Cites
Self-Cites
80k
40k
0
1996 1999 2002 2005 2008 2011 2014 2017

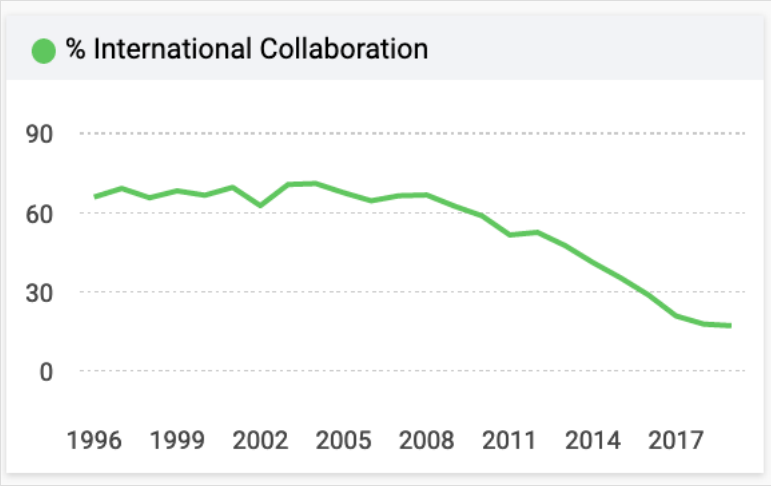

External Cites
Self-Cites
10k
5k
0
1996 1999 2002 2005 2008 2011 2014 2017

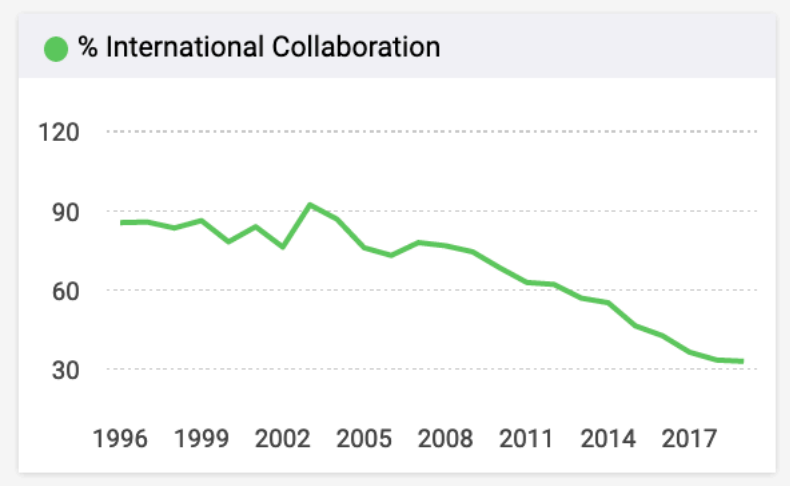

% Open Access Output
1996 1999 2002 2005 2008 2011 2014 2017


% Open Access Output
1996 1999 2002 2005 2008 2011 2014 2017


Output:
% of the World
% of BRIICS
% of Asiatic Region
4
3.2
2.4
1.6
0.8
0
1996
1999
2002
2005
2008
2011
2014
2017

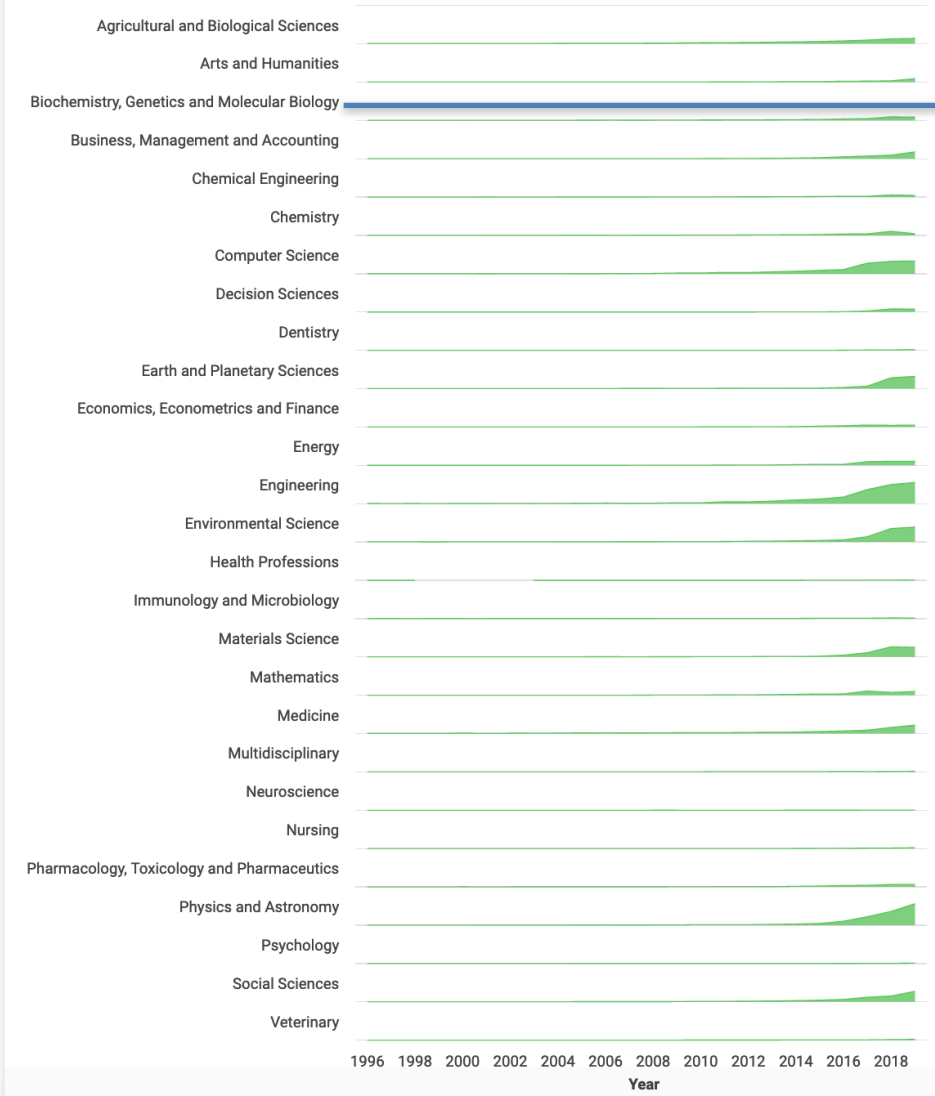

Output:
% of the World
% of BRIICS
% of Asiatic Region
3.5
2.8
2.1
1.4
0.7
0
1996
1999
2002
2005
2008
2011
2014
2017


% International Collaboration
90
60
30
0
1996
1999
2002
2005
2008
2011
2014
2017

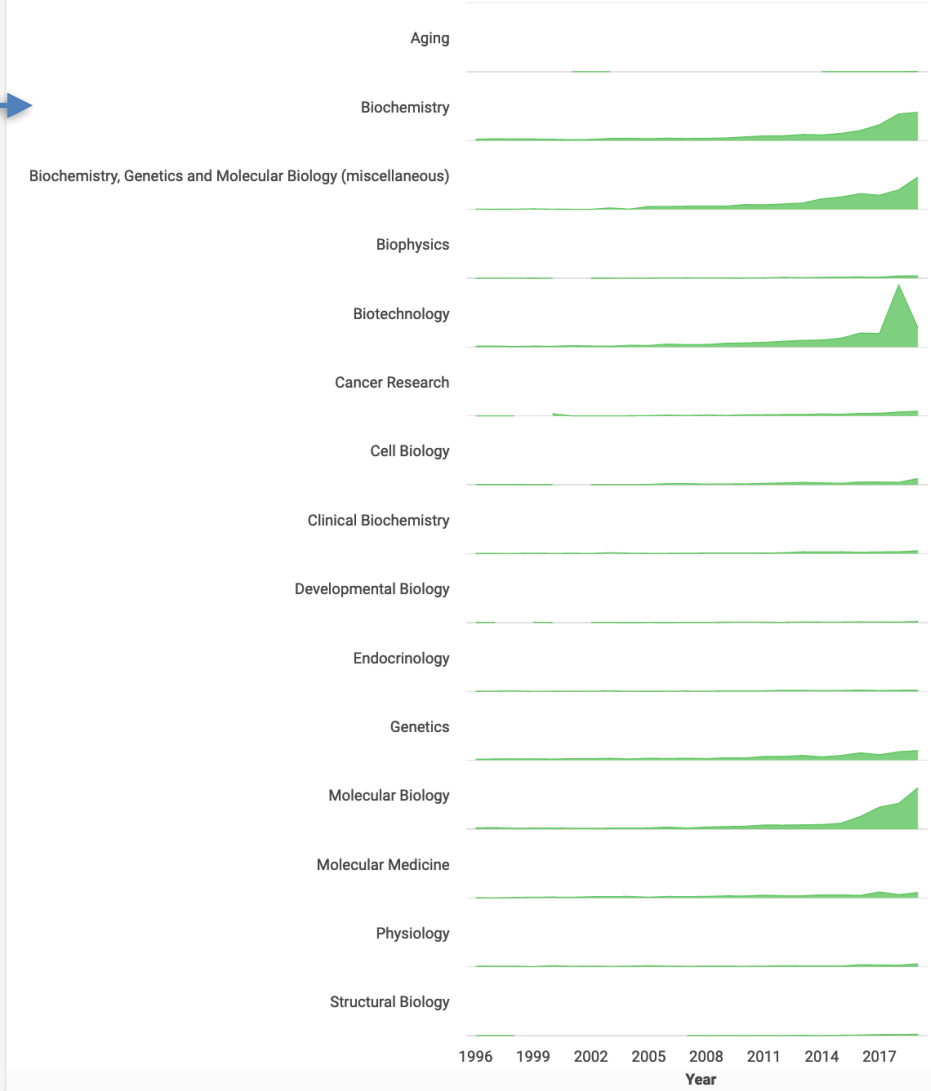

% International Collaboration
120
90
60
30
1996
1999
2002
2005
2008
2011
2014
2017

Biochemistry, genetics, and molecular biology

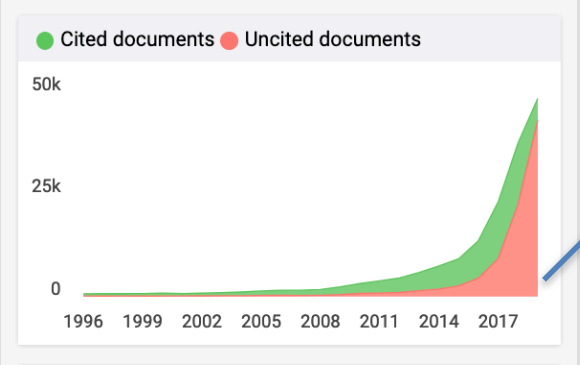
Documents by subject areas

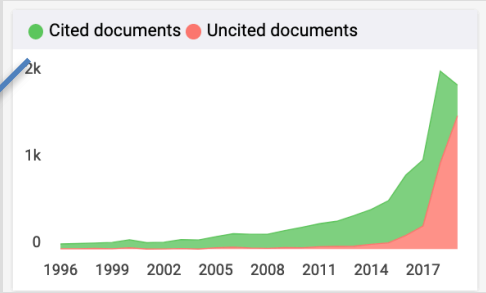


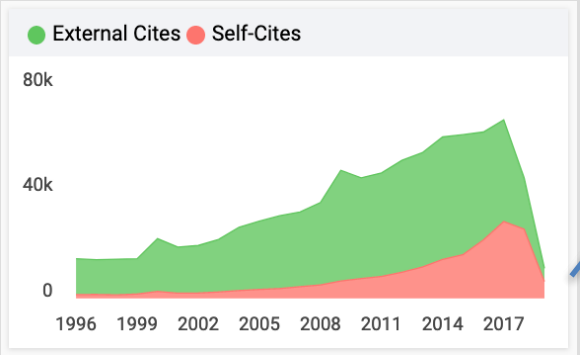
Documents by subject categories

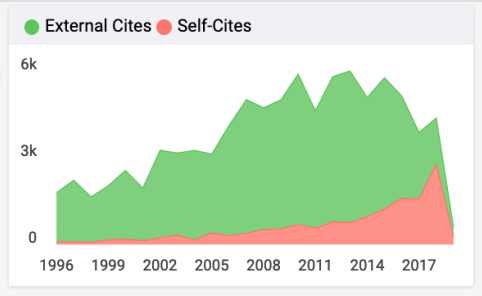


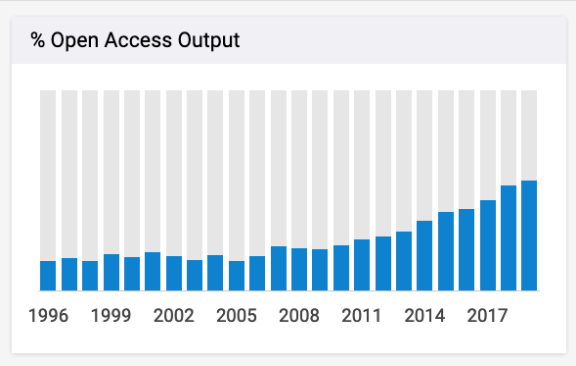
Citations

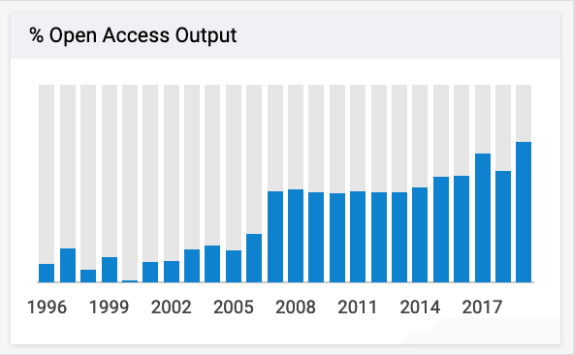

Cited documents
Uncited documents
50k
25k
0
1996 1999 2002 2005 2008 2011 2014 2017

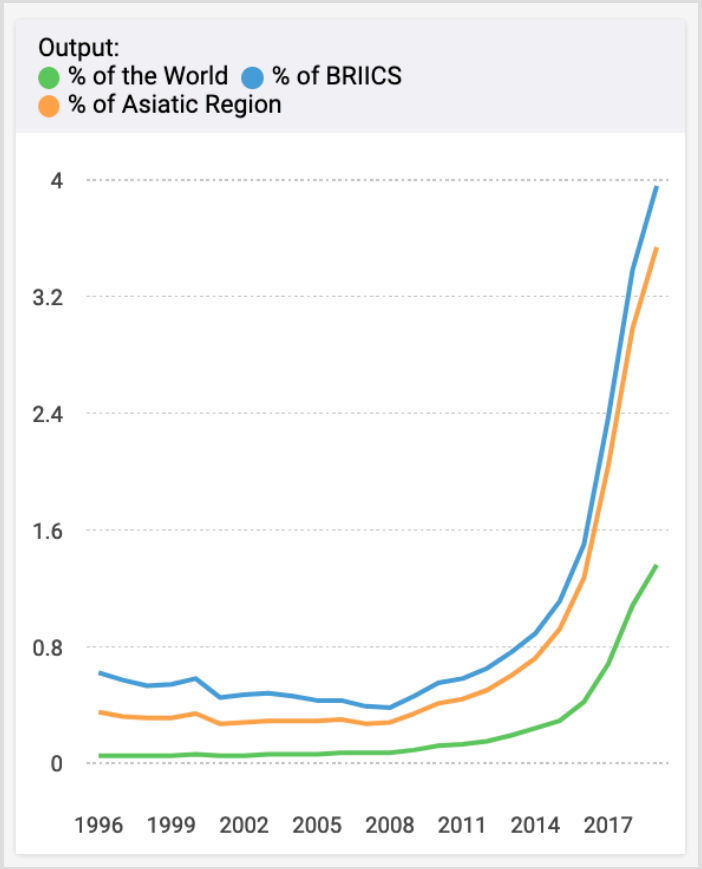

Cited documents
Uncited documents
2k
1k
0
1996 1999 2002 2005 2008 2011 2014 2017

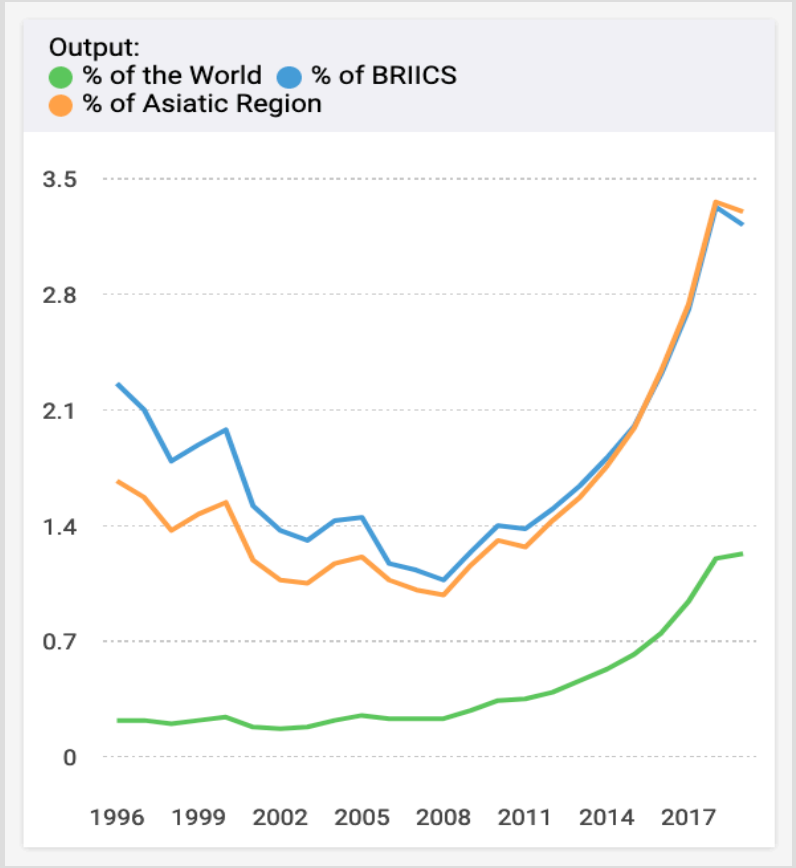

External Cites
Self-Cites
80k
40k
0
1996 1999 2002 2005 2008 2011 2014 2017

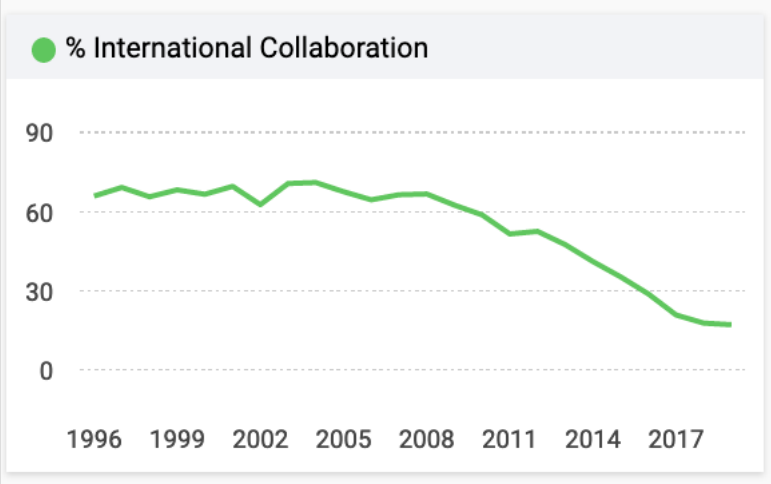

External Cites
Self-Cites
6k
3k
0
1996 1999 2002 2005 2008 2011 2014 2017

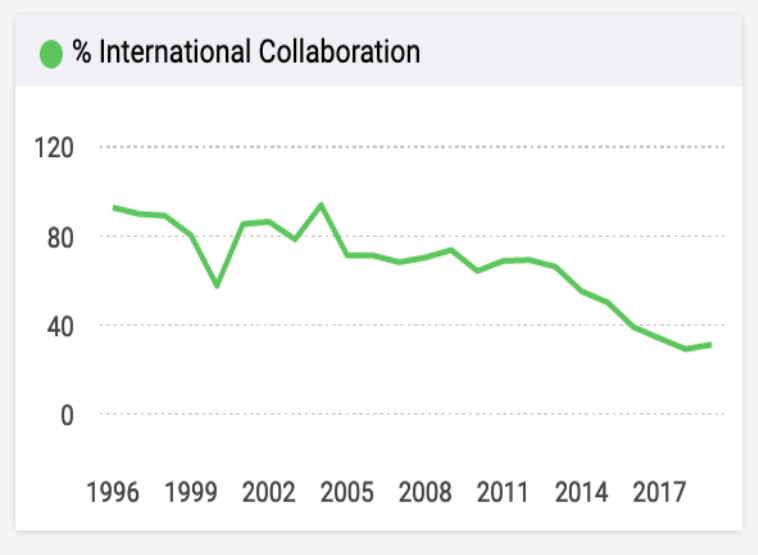

% Open Access Output
1996 1999 2002 2005 2008 2011 2014 2017


% Open Access Output
1996 1999 2002 2005 2008 2011 2014 2017


Output:
% of the World
% of BRIICS
% of Asiatic Region
4
3.2
2.4
1.6
0.8
0
1996
1999
2002
2005
2008
2011
2014
2017

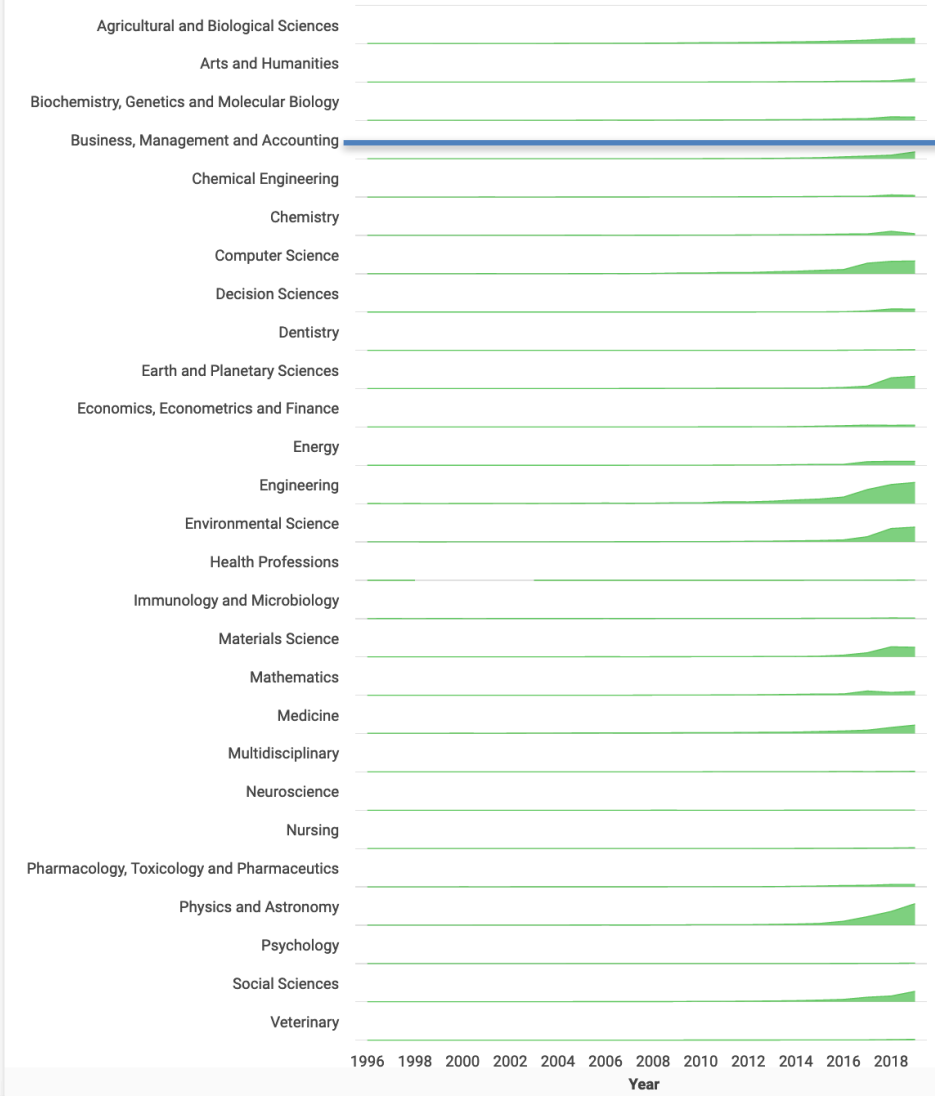

Output:
% of the World
% of BRIICS
% of Asiatic Region
3.5
2.8
2.1
1.4
0.7
0
1996
1999
2002
2005
2008
2011
2014
2017


% International Collaboration
90
60
30
0
1996
1999
2002
2005
2008
2011
2014
2017

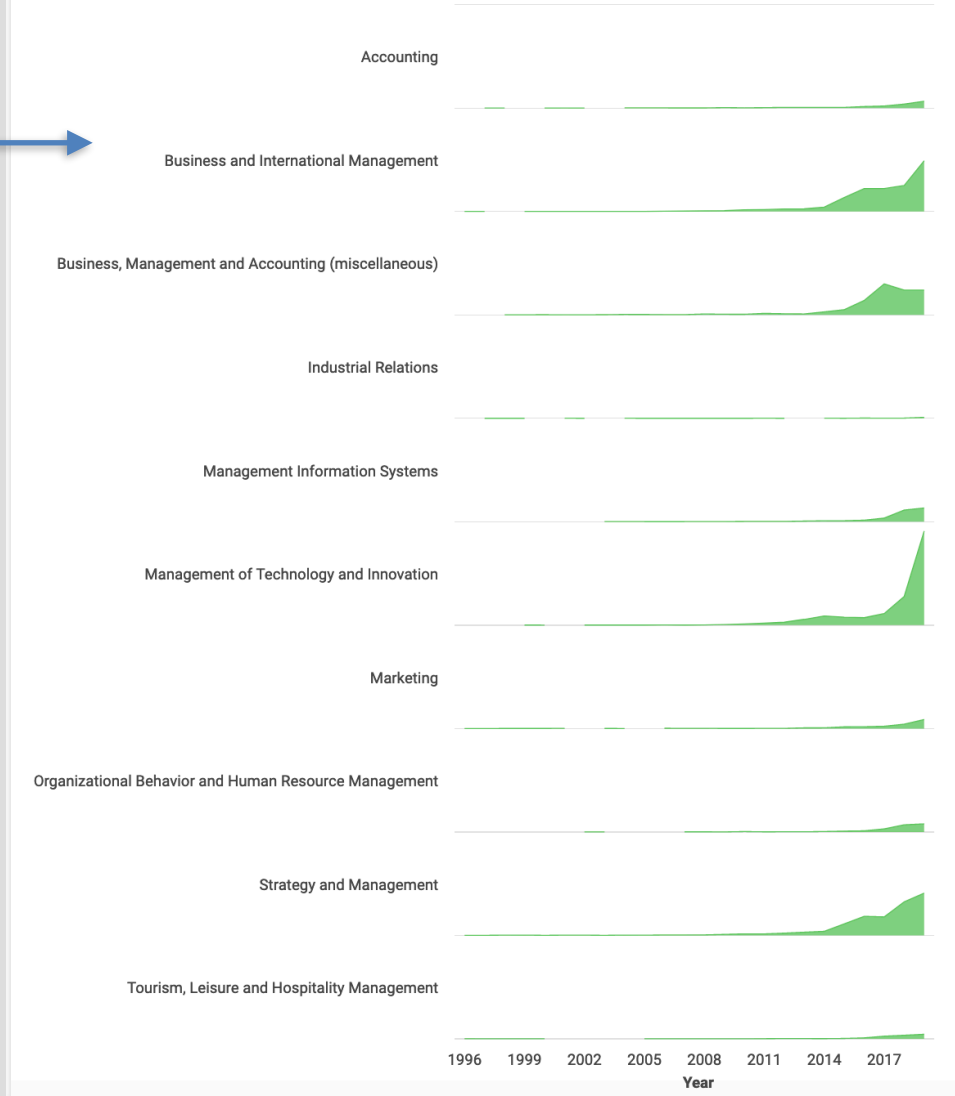

% International Collaboration
120
80
40
0
1996
1999
2002
2005
2008
2011
2014
2017

Business, management, accounting

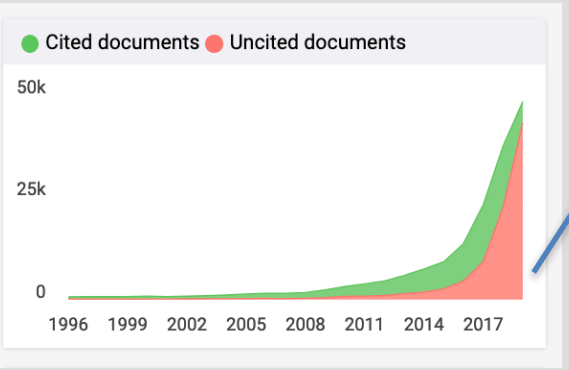
Documents by subject areas

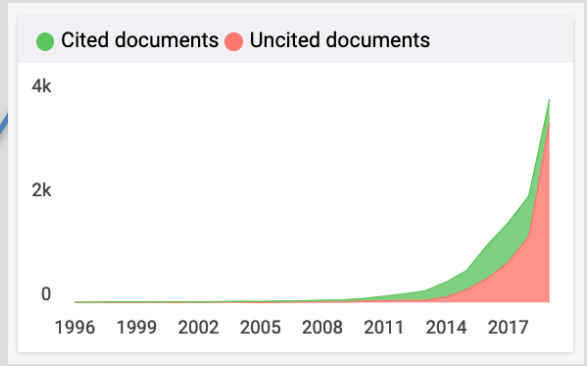


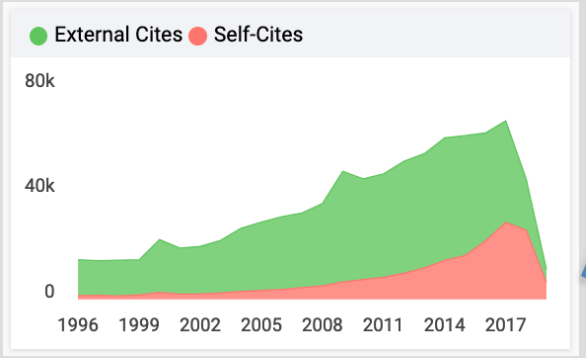
Documents by subject categories

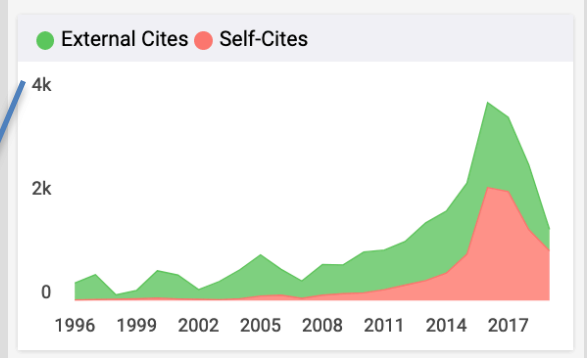


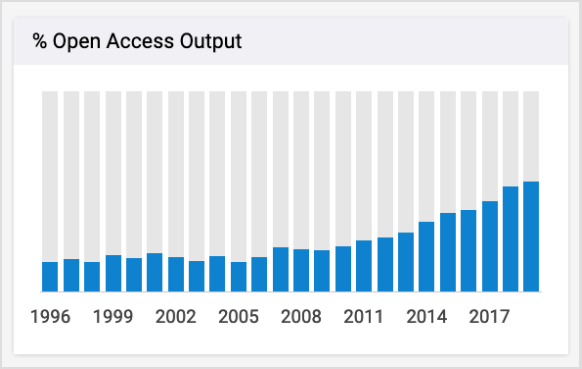
Citations

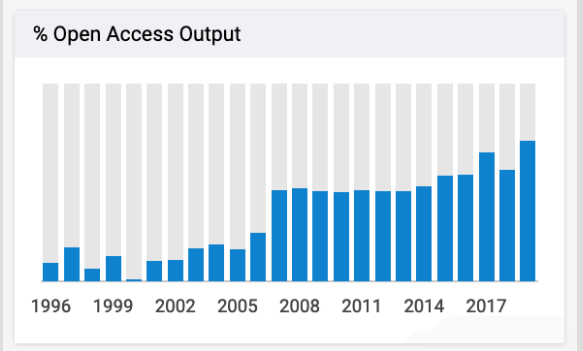

Cited documents
Uncited documents
50k
25k
0
1996 1999 2002 2005 2008 2011 2014 2017

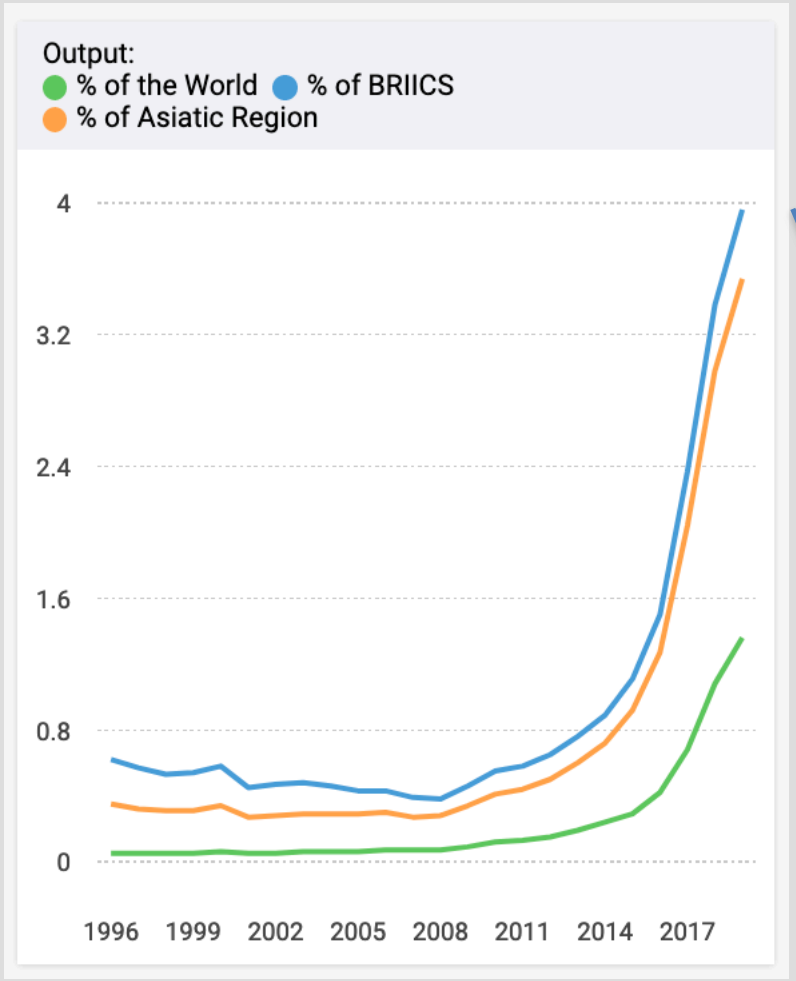

Cited documents
Uncited documents
4k
2k
0
1996 1999 2002 2005 2008 2011 2014 2017

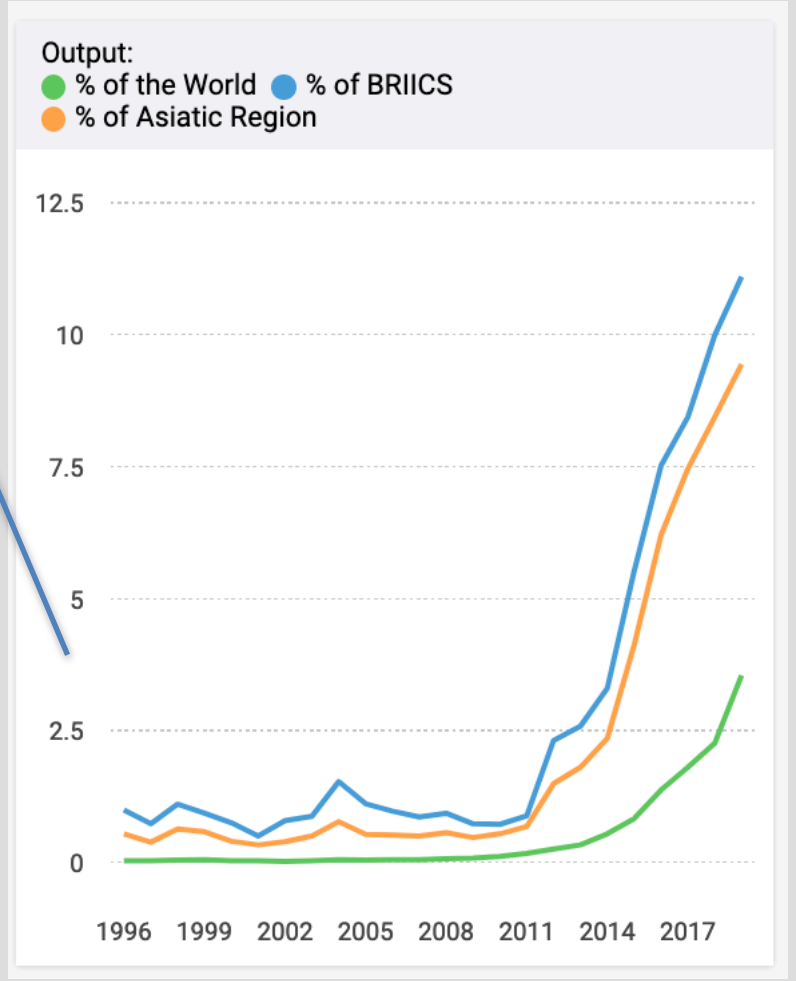

External Cites
Self-Cites
80k
40k
0
1996 1999 2002 2005 2008 2011 2014 2017

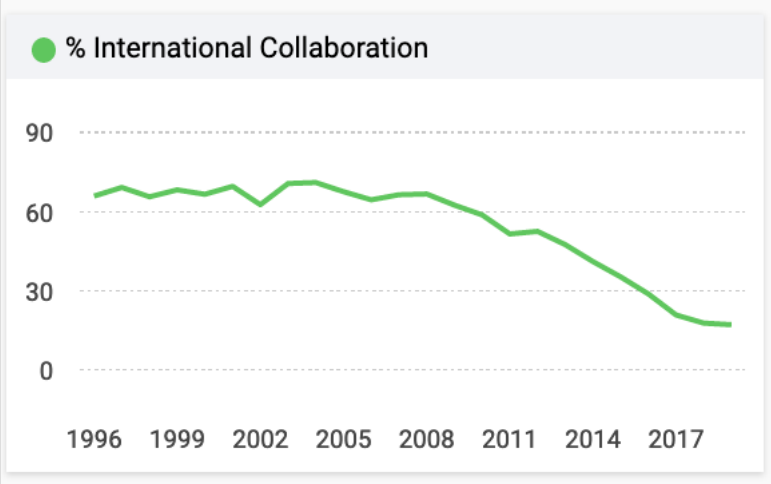

External Cites
Self-Cites
4k
2k
0
1996 1999 2002 2005 2008 2011 2014 2017


% Open Access Output
1996 1999 2002 2005 2008 2011 2014 2017


% Open Access Output
1996 1999 2002 2005 2008 2011 2014 2017


Output:
% of the World
% of BRIICS
% of Asiatic Region
4
3.2
2.4
1.6
0.8
0
1996
1999
2002
2005
2008
2011
2014
2017

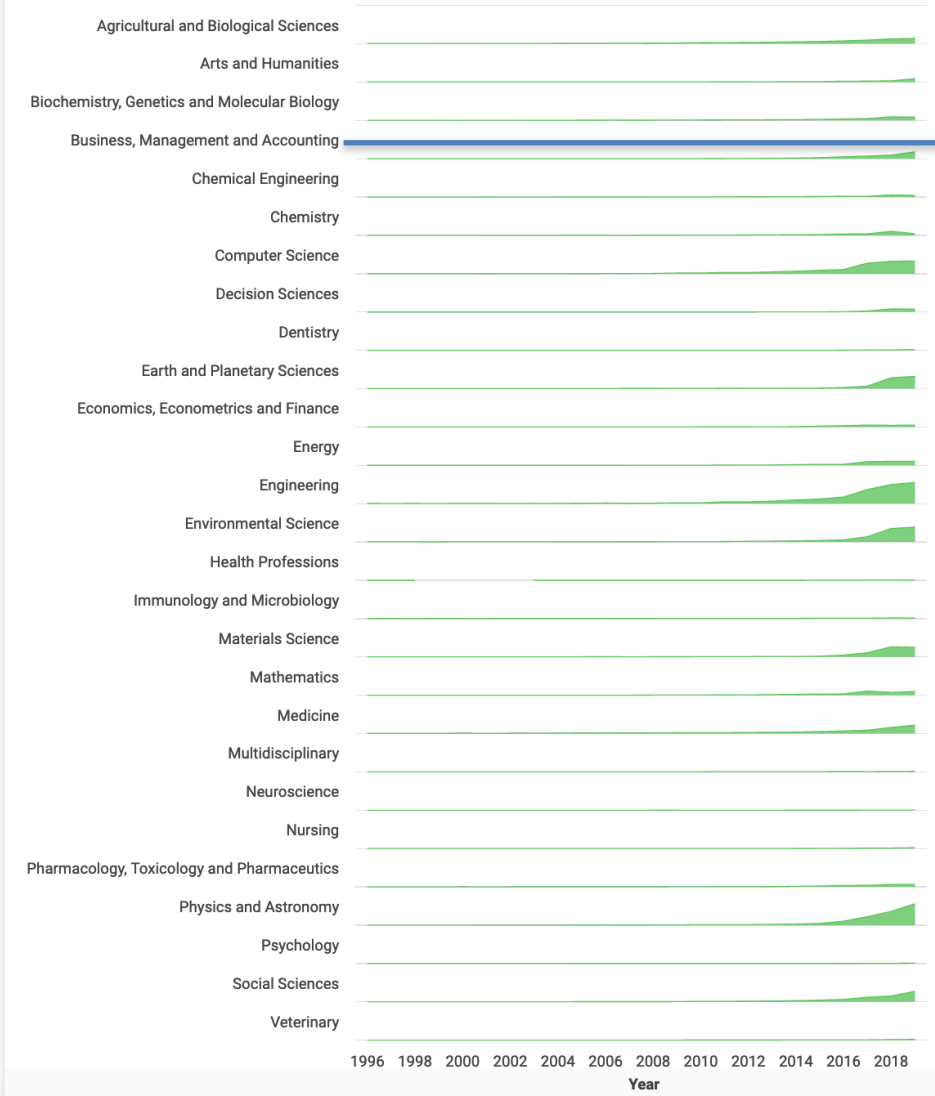

Output:
% of the World
% of BRIICS
% of Asiatic Region
12.5
10
7.5
5
2.5
0
1996
1999
2002
2005
2008
2011
2014
2017


% International Collaboration
90
60
30
0
1996
1999
2002
2005
2008
2011
2014
2017

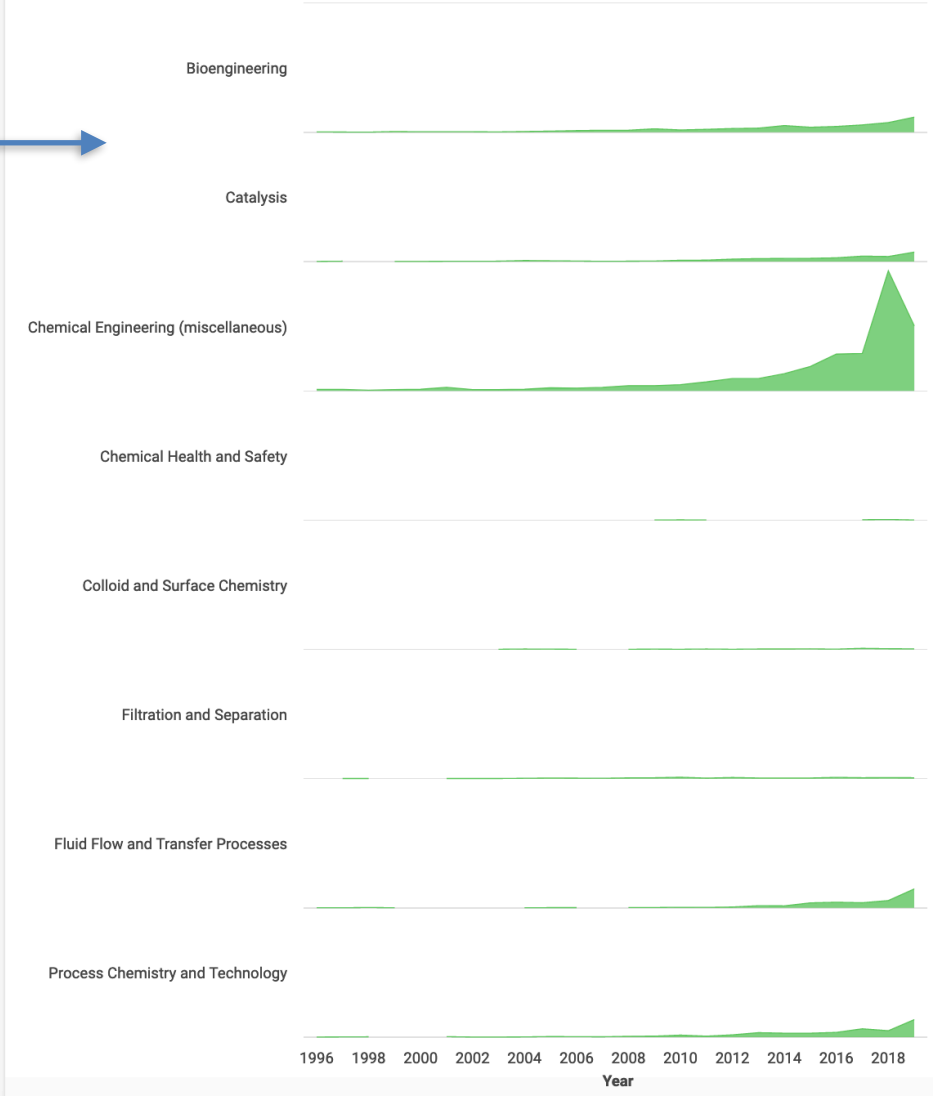
% International Collaboration
120
80
40
0
1996
1999
2002
2005
2008
2011
2014
2017

Chemical engineering

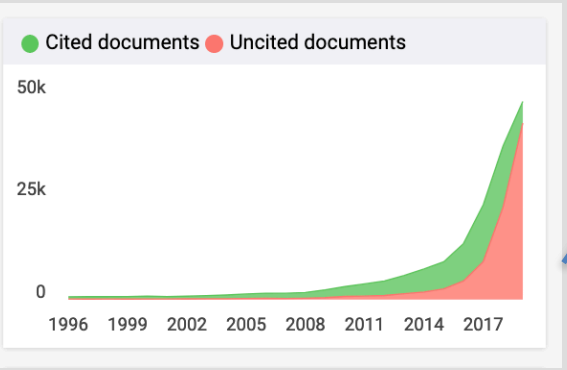
Documents by subject areas

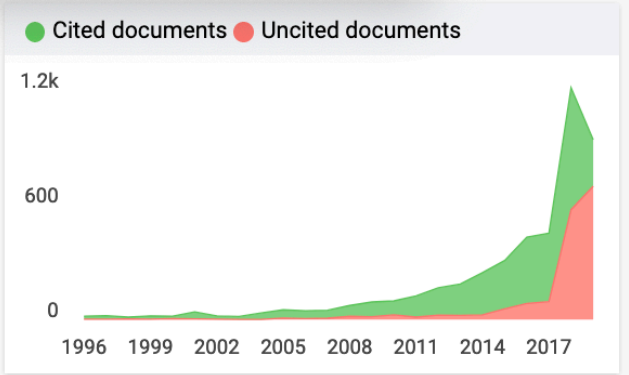


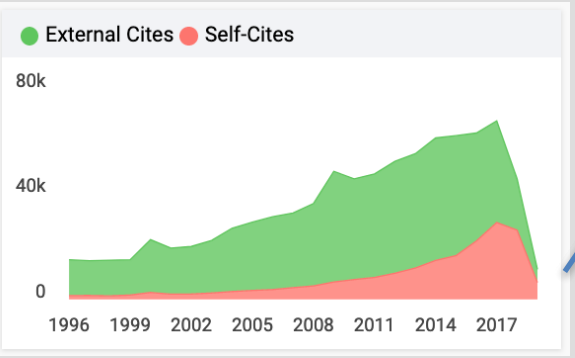
Documents by subject categories

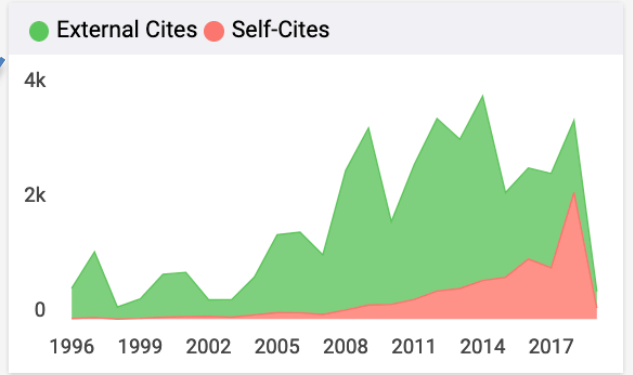


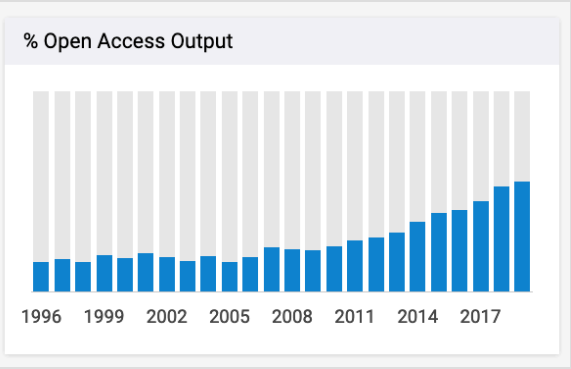
Citations

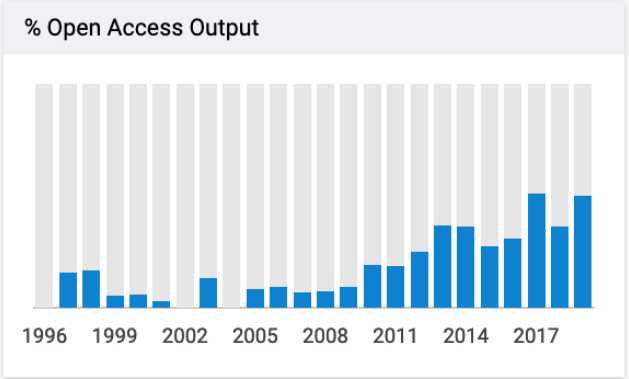

Cited documents
Uncited documents
50k
25k
0
1996
1999
2002
2005
2008
2011
2014
2017

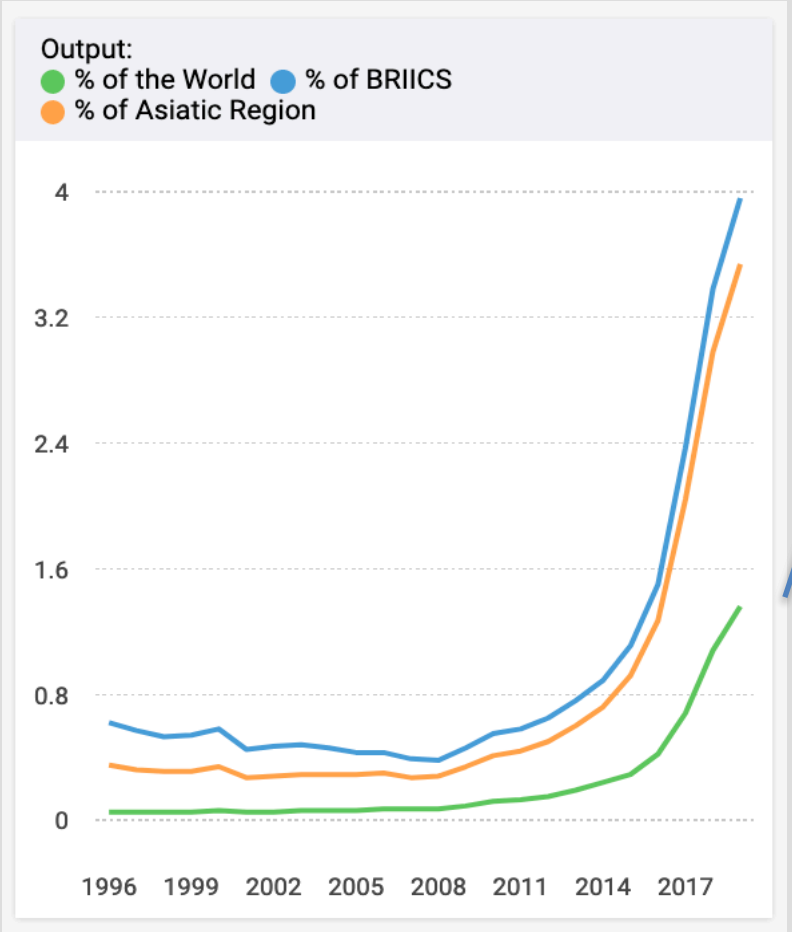

Cited documents
Uncited documents
1.2k
600
0
1996
1999
2002
2005
2008
2011
2014
2017

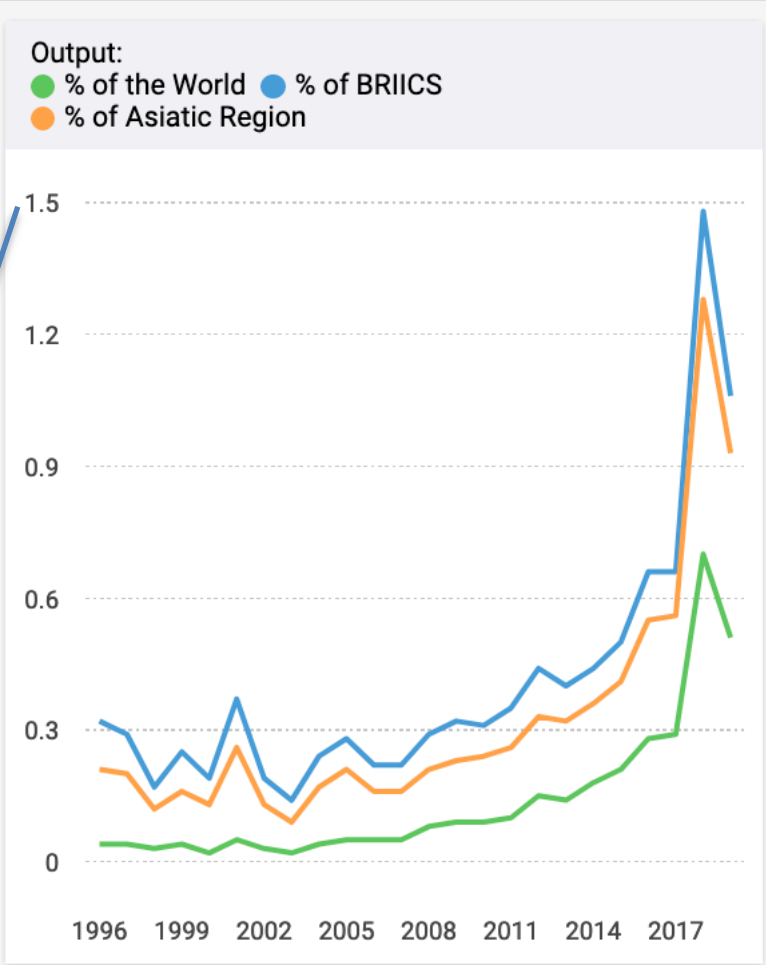

External Cites
Self-Cites
80k
40k
0
1996
1999
2002
2005
2008
2011
2014
2017

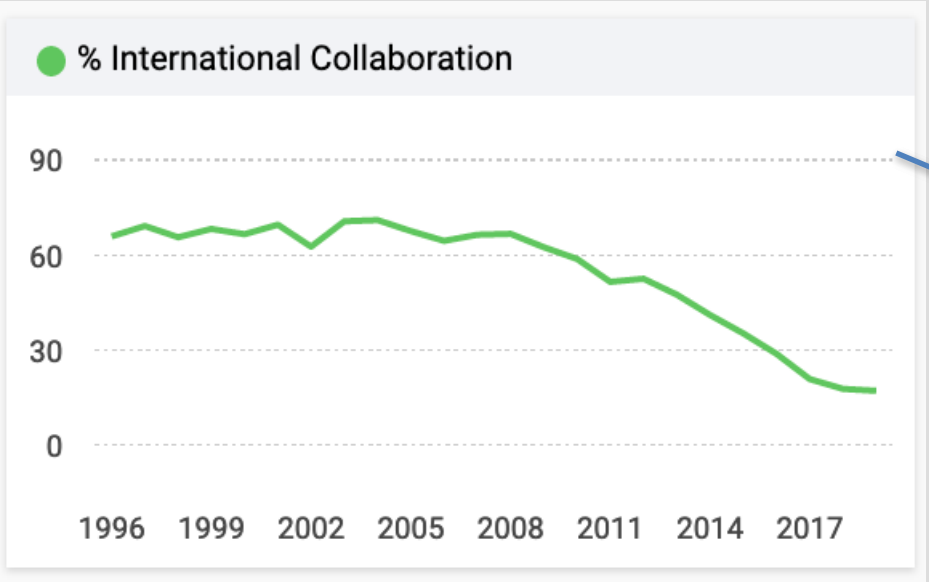

External Cites
Self-Cites
4k
2k
0
1996
1999
2002
2005
2008
2011
2014
2017


% Open Access Output
1996
1999
2002
2005
2008
2011
2014
2017


% Open Access Output
1996
1999
2002
2005
2008
2011
2014
2017


Output:
% of the World
% of BRIICS
% of Asiatic Region
4
3.2
2.4
1.6
0.8
0
1996
1999
2002
2005
2008
2011
2014
2017

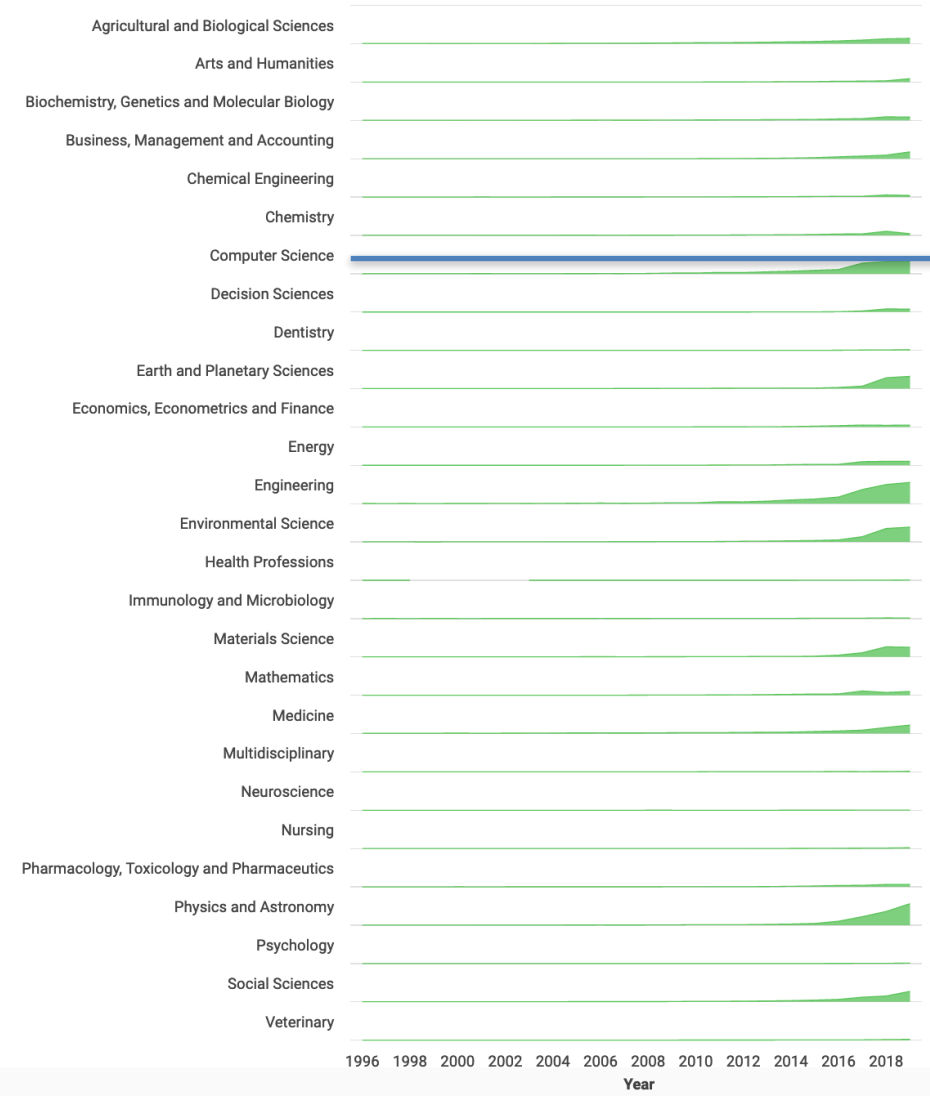

Output:
% of the World
% of BRIICS
% of Asiatic Region
1.5
1.2
0.9
0.6
0.3
0
1996
1999
2002
2005
2008
2011
2014
2017


% International Collaboration
90
60
30
0
1996
1999
2002
2005
2008
2011
2014
2017

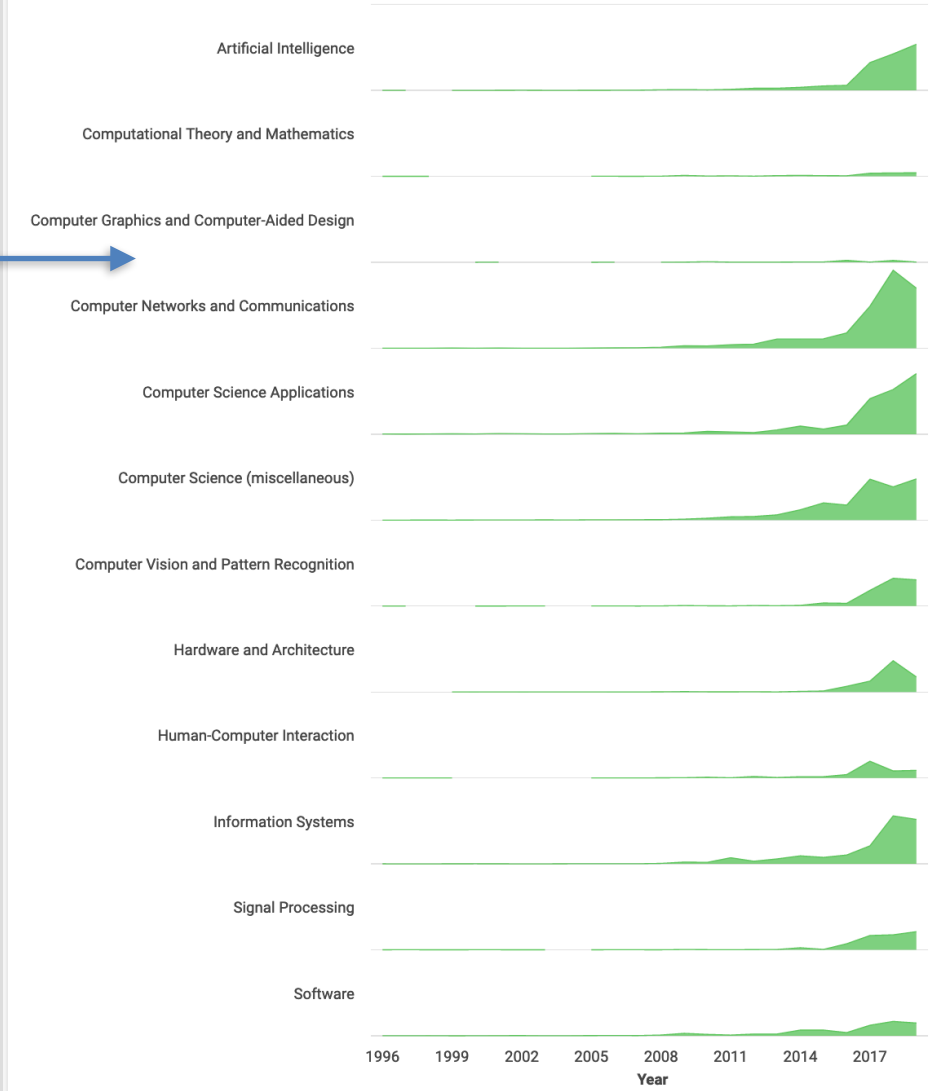
% International Collaboration
120
80
40
0
1996
1999
2002
2005
2008
2011
2014
2017

Computer sciences

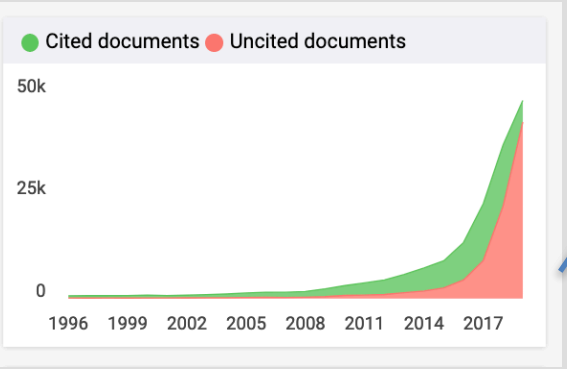
Documents by subject areas

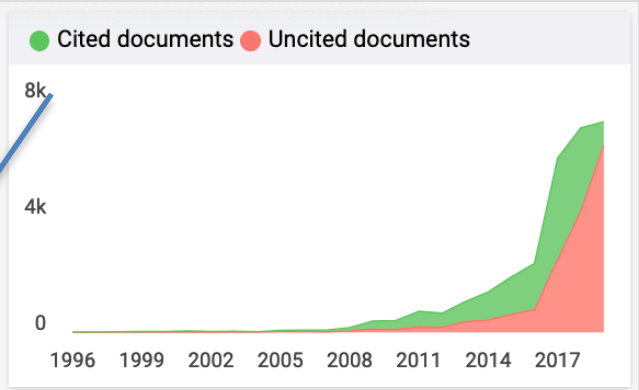


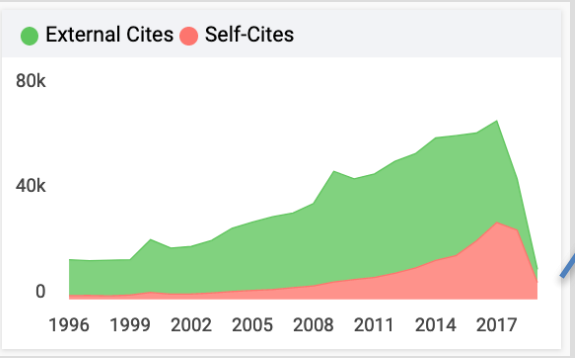
Documents by subject categories

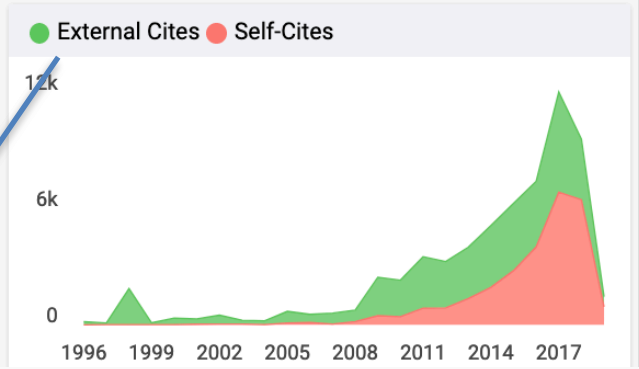


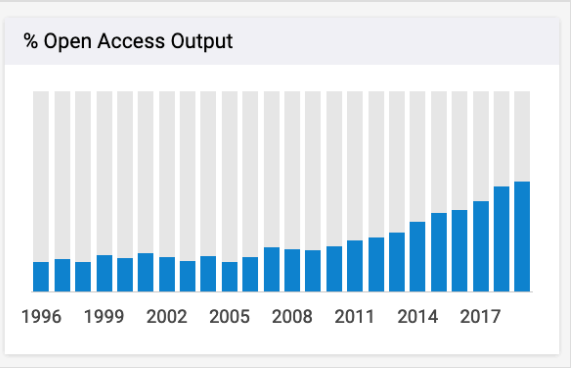
Citations

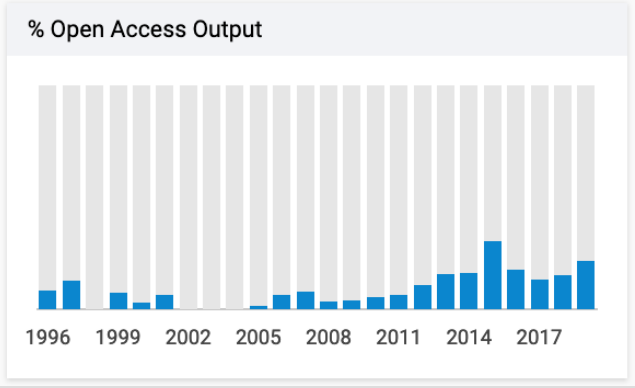

Cited documents
Uncited documents
50k
25k
0
1996
1999
2002
2005
2008
2011
2014
2017

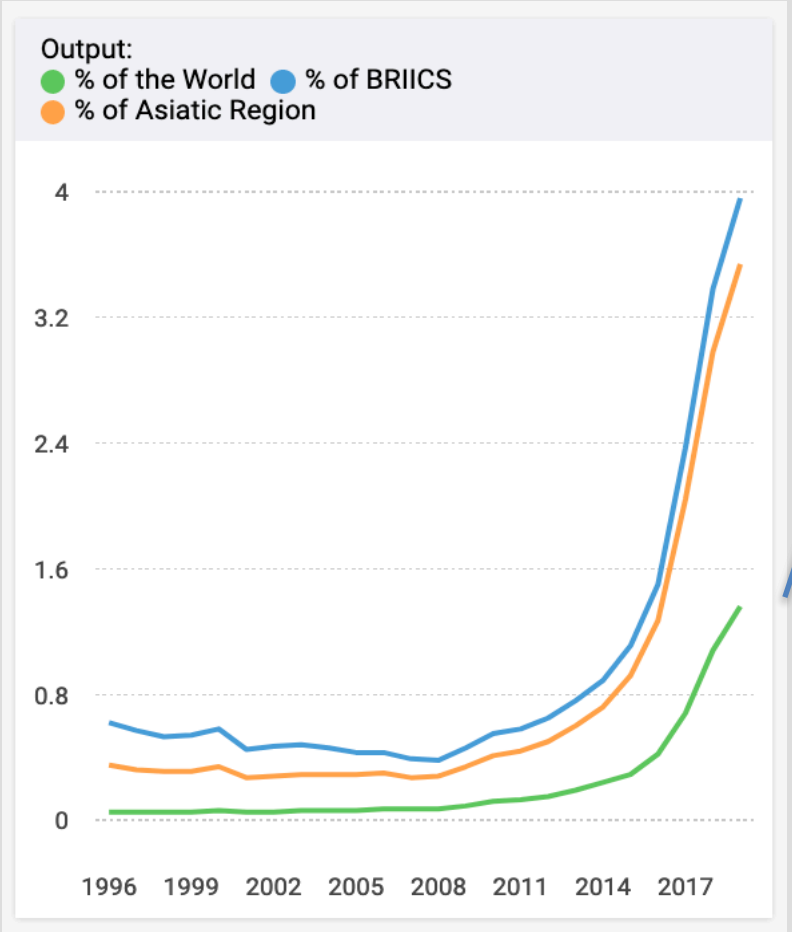

Cited documents
Uncited documents
8k
4k
0
1996
1999
2002
2005
2008
2011
2014
2017

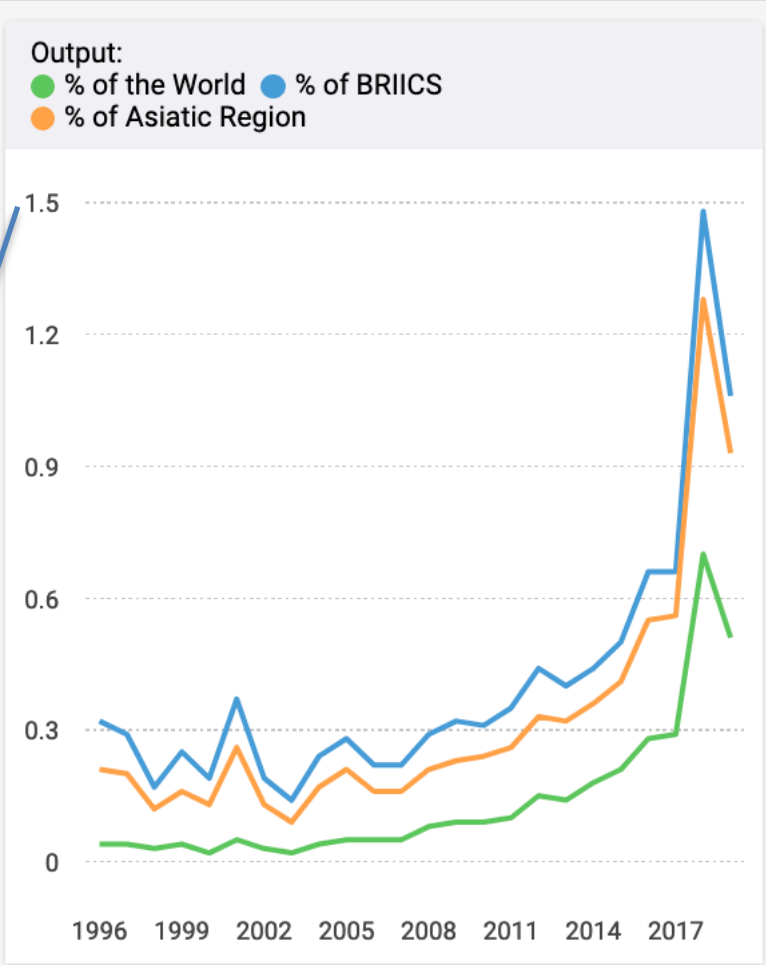

External Cites
Self-Cites
80k
40k
0
1996
1999
2002
2005
2008
2011
2014
2017

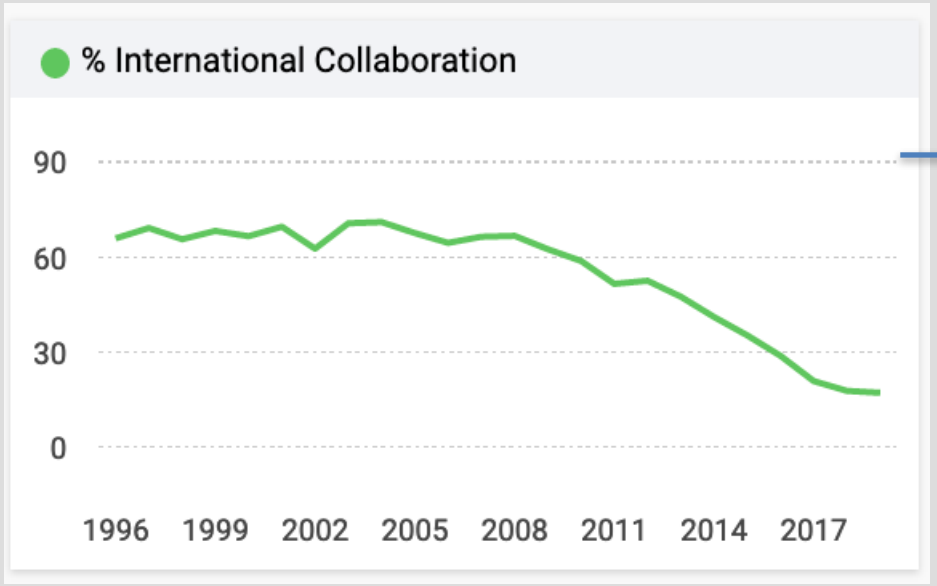

External Cites
Self-Cites
12k
6k
0
1996
1999
2002
2005
2008
2011
2014
2017

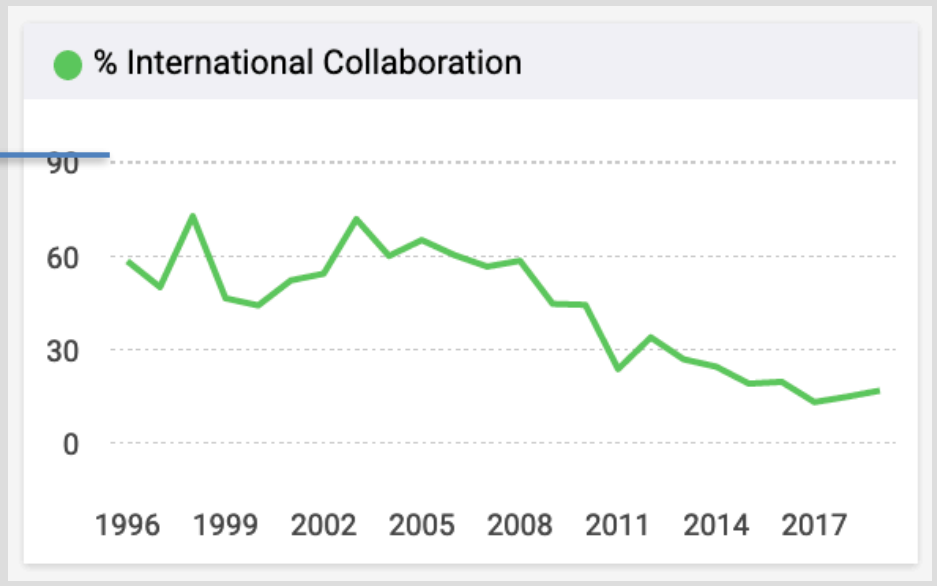

% Open Access Output
1996
1999
2002
2005
2008
2011
2014
2017


% Open Access Output
1996
1999
2002
2005
2008
2011
2014
2017


Output:
% of the World
% of BRIICS
% of Asiatic Region
4
3.2
2.4
1.6
0.8
0
1996
1999
2002
2005
2008
2011
2014
2017

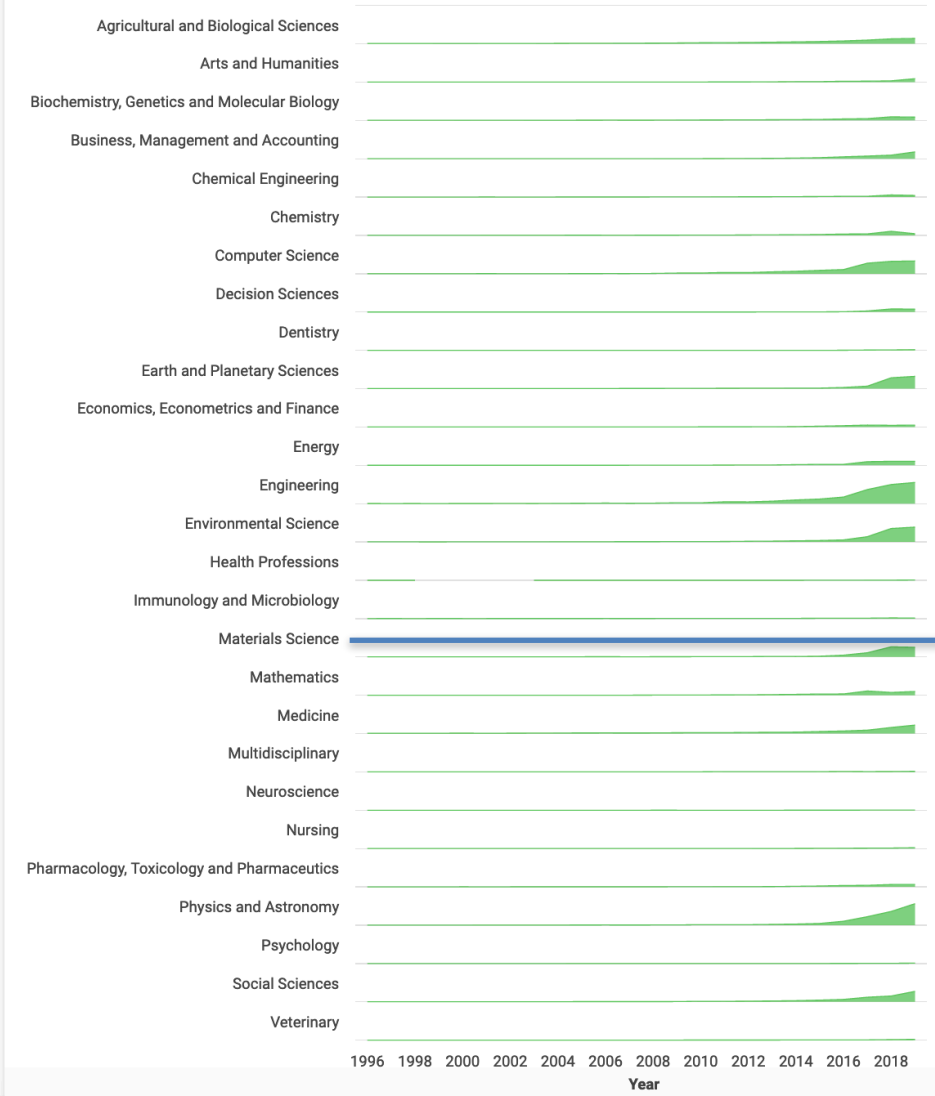

Output:
% of the World
% of BRIICS
% of Asiatic Region
1.5
1.2
0.9
0.6
0.3
0
1996
1999
2002
2005
2008
2011
2014
2017


% International Collaboration
90
60
30
0
1996
1999
2002
2005
2008
2011
2014
2017

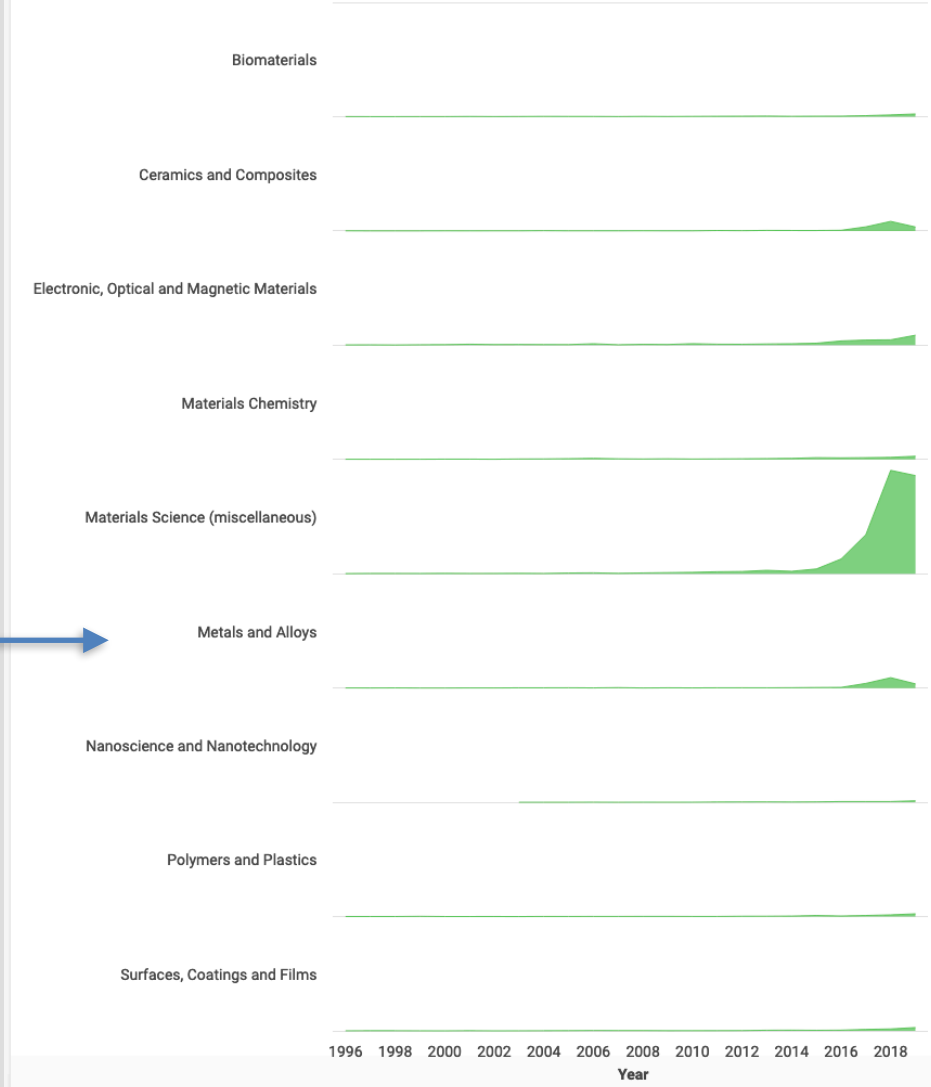

% International Collaboration
90
60
30
0
1996
1999
2002
2005
2008
2011
2014
2017

Material sciences

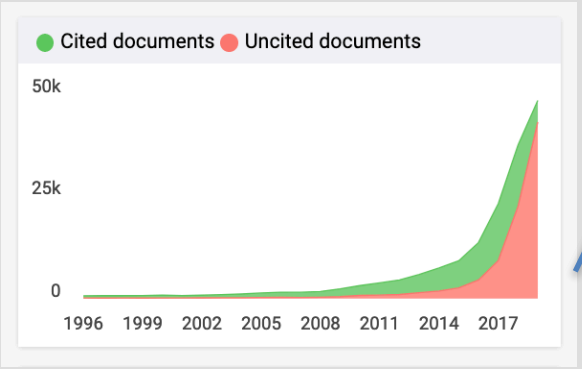
Documents by subject areas

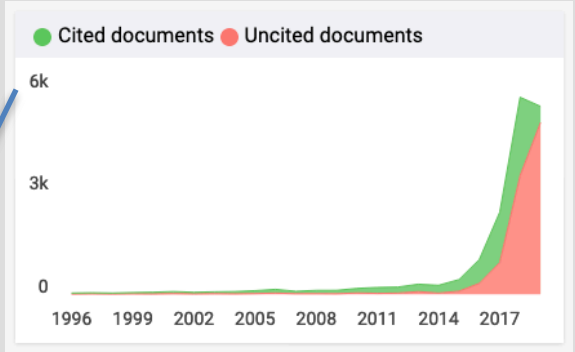


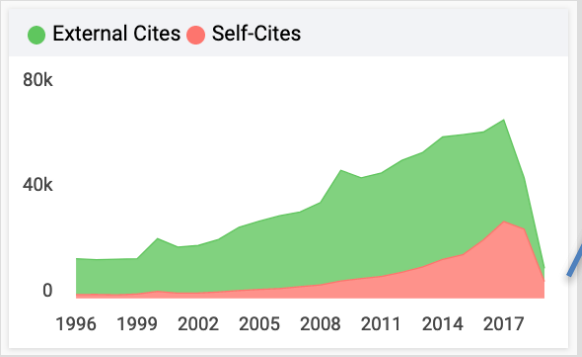
Documents by subject categories

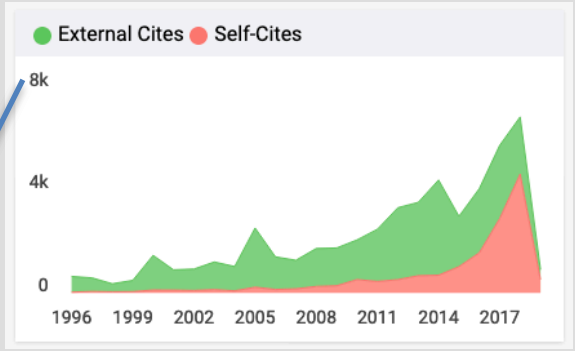


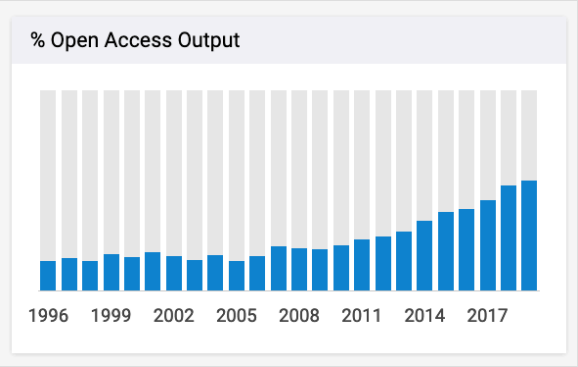
Citations

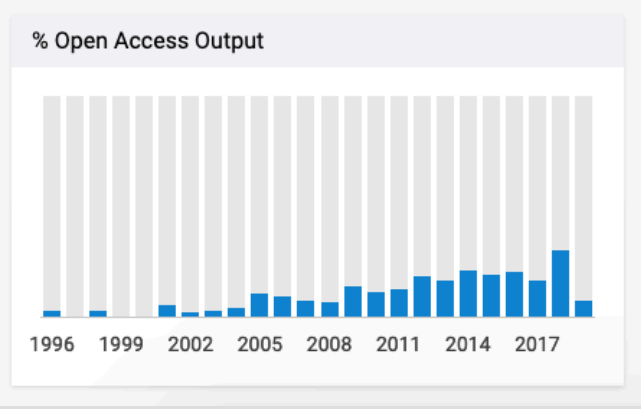

Cited documents
Uncited documents
50k
25k
0
1996
1999
2002
2005
2008
2011
2014
2017

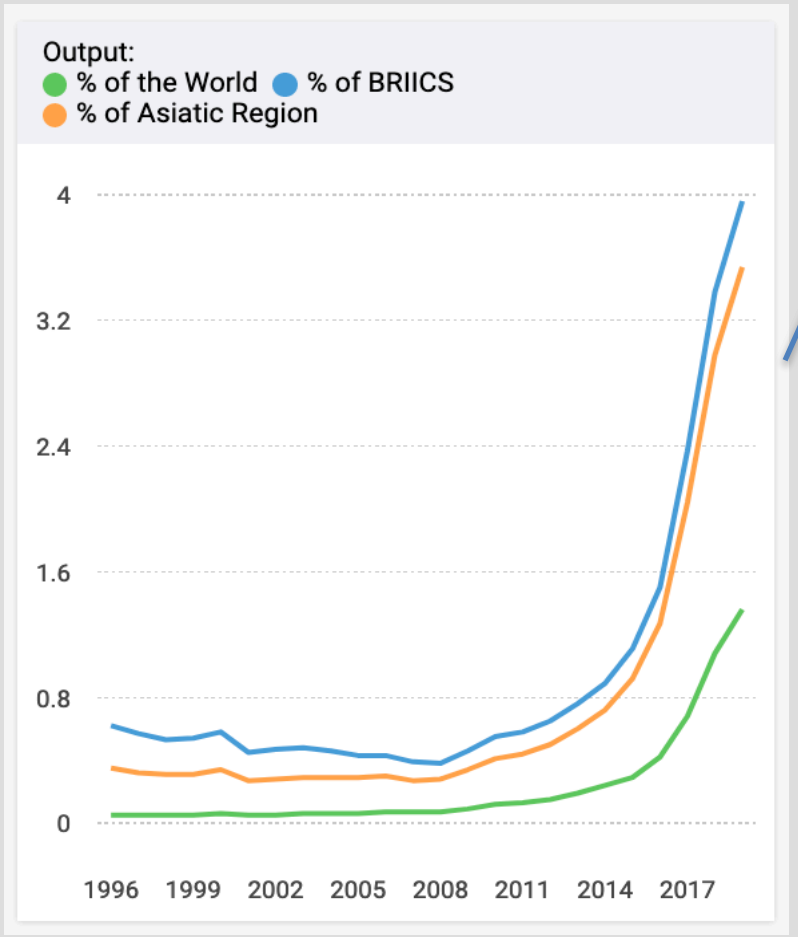

Cited documents
Uncited documents
6k
3k
0
1996
1999
2002
2005
2008
2011
2014
2017

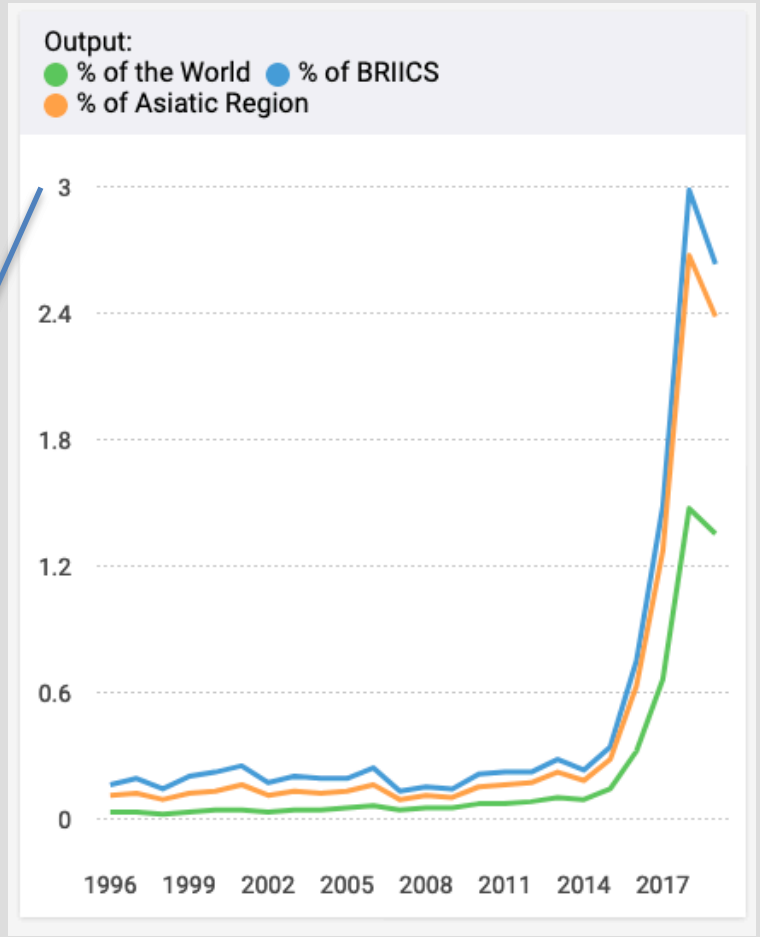

External Cites
Self-Cites
80k
40k
0
1996
1999
2002
2005
2008
2011
2014
2017

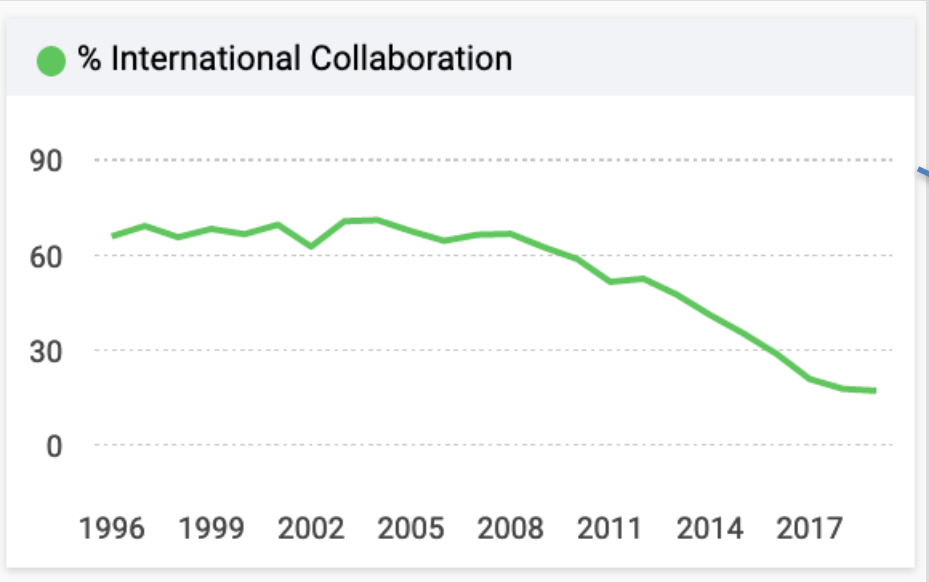

External Cites
Self-Cites
8k
4k
0
1996
1999
2002
2005
2008
2011
2014
2017


% Open Access Output
1996
1999
2002
2005
2008
2011
2014
2017


% Open Access Output
1996
1999
2002
2005
2008
2011
2014
2017


Output:
% of the World
% of BRIICS
% of Asiatic Region
4
3.2
2.4
1.6
0.8
0
1996
1999
2002
2005
2008
2011
2014
2017

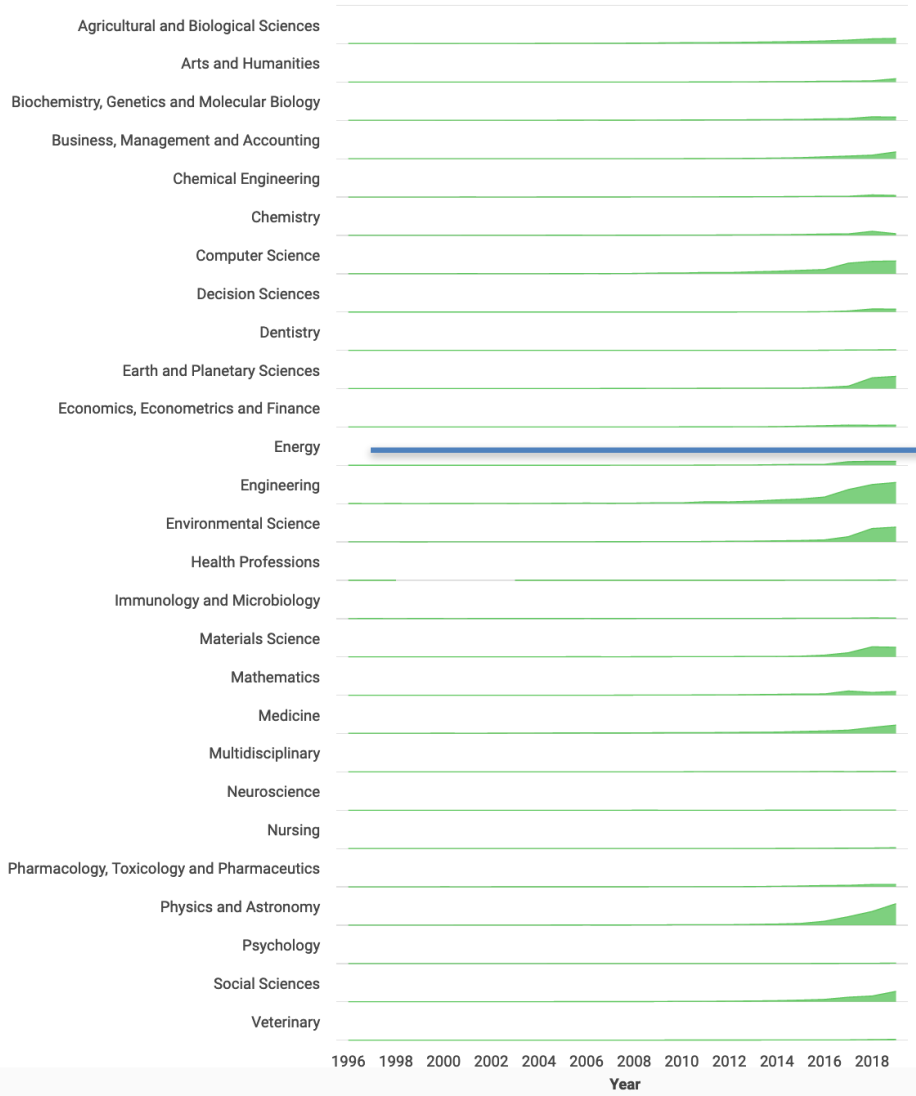

Output:
% of the World
% of BRIICS
% of Asiatic Region
3
2.4
1.8
1.2
0.6
0
1996
1999
2002
2005
2008
2011
2014
2017


% International Collaboration
90
60
30
0
1996
1999
2002
2005
2008
2011
2014
2017

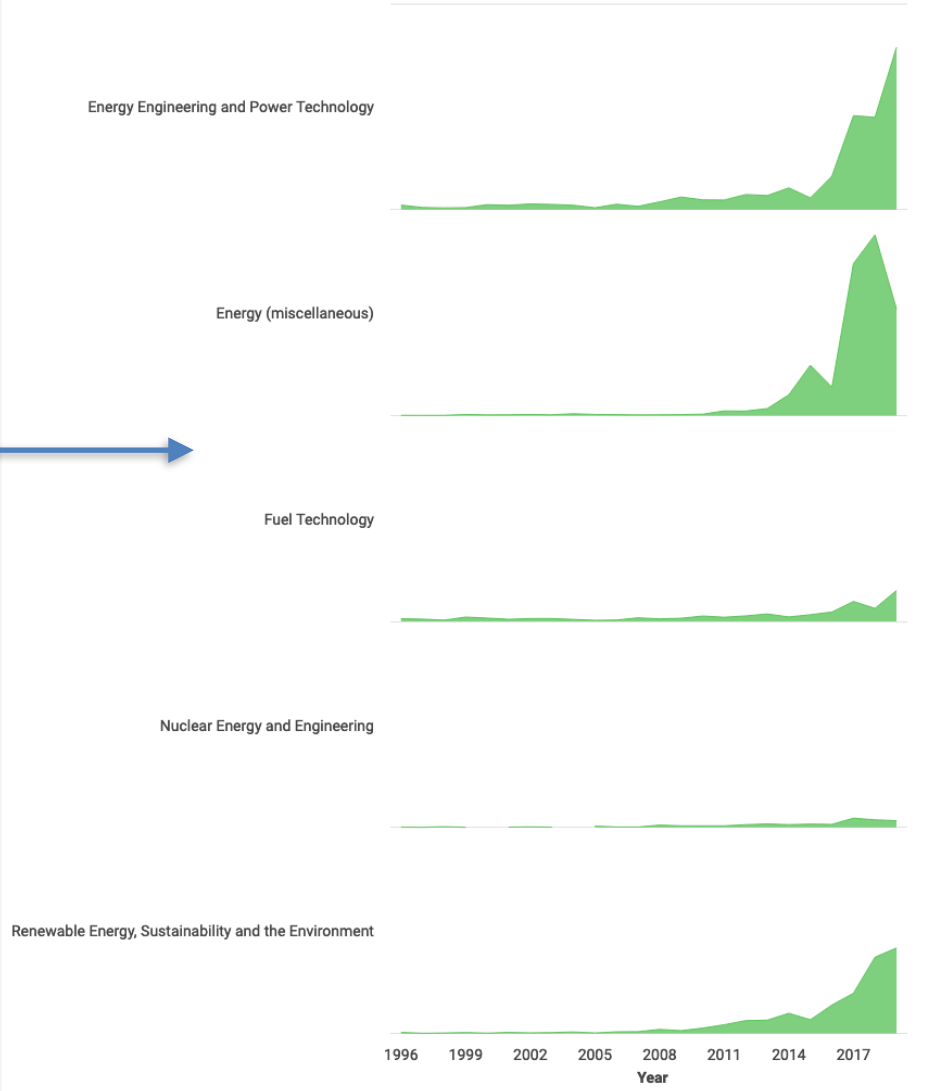
% International Collaboration
120
80
40
0
1996
1999
2002
2005
2008
2011
2014
2017

Energy

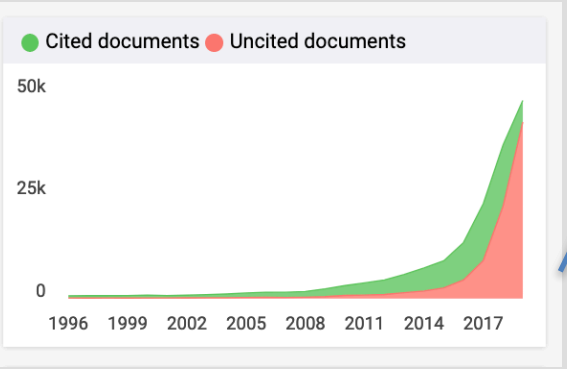
Documents by subject areas

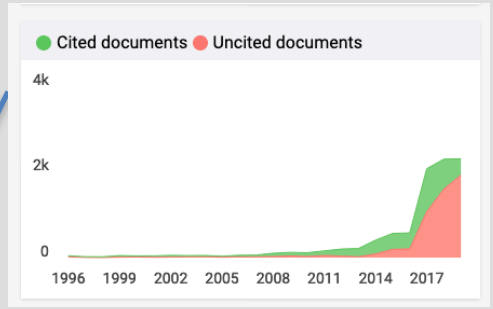


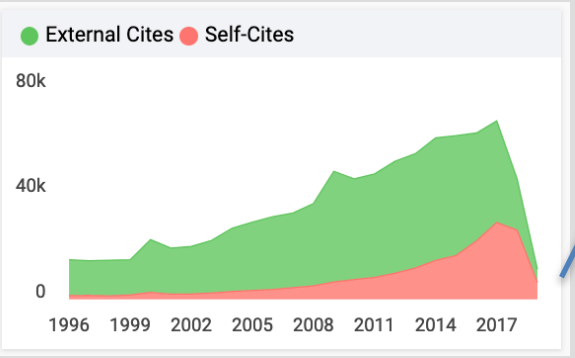
Documents by subject categories

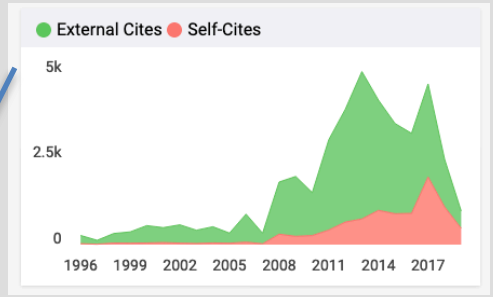


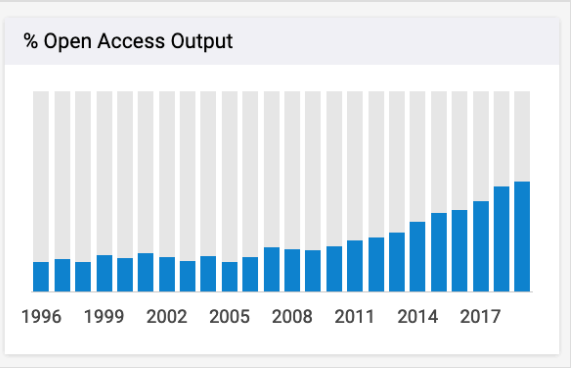
Citations

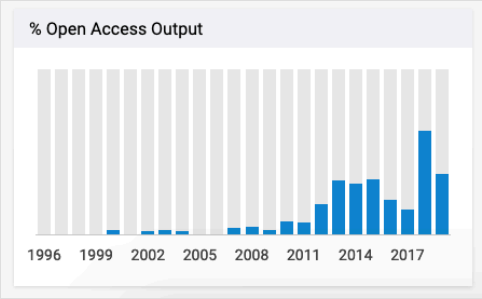

Cited documents
Uncited documents
50k
25k
0
1996
1999
2002
2005
2008
2011
2014
2017

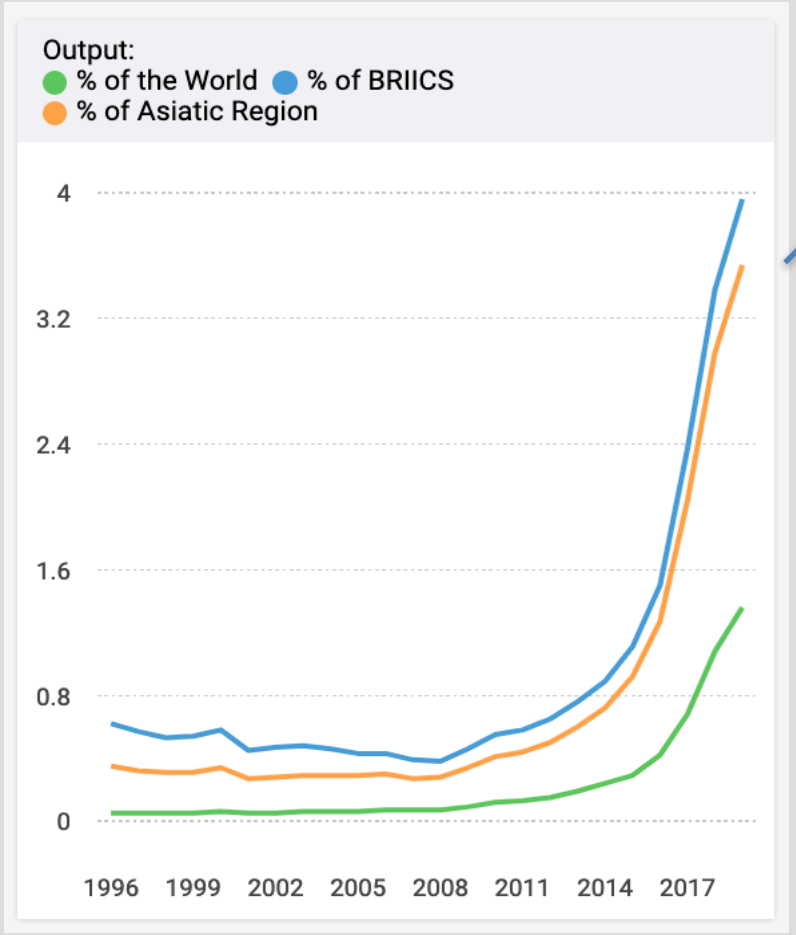

Cited documents
Uncited documents
4k
2k
0
1996
1999
2002
2005
2008
2011
2014
2017

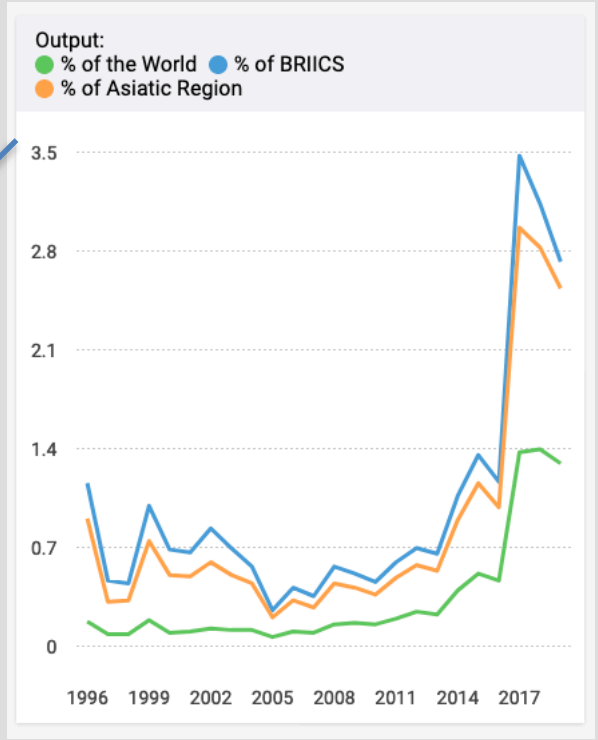

External Cites
Self-Cites
80k
40k
0
1996
1999
2002
2005
2008
2011
2014
2017

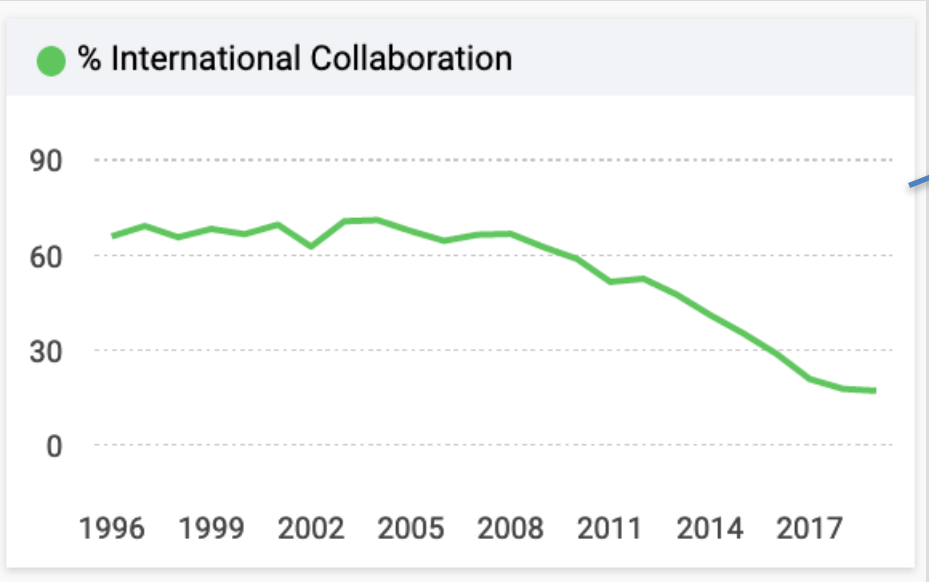

External Cites
Self-Cites
5k
2.5k
0
1996
1999
2002
2005
2008
2011
2014
2017


% Open Access Output
1996
1999
2002
2005
2008
2011
2014
2017


% Open Access Output
1996
1999
2002
2005
2008
2011
2014
2017

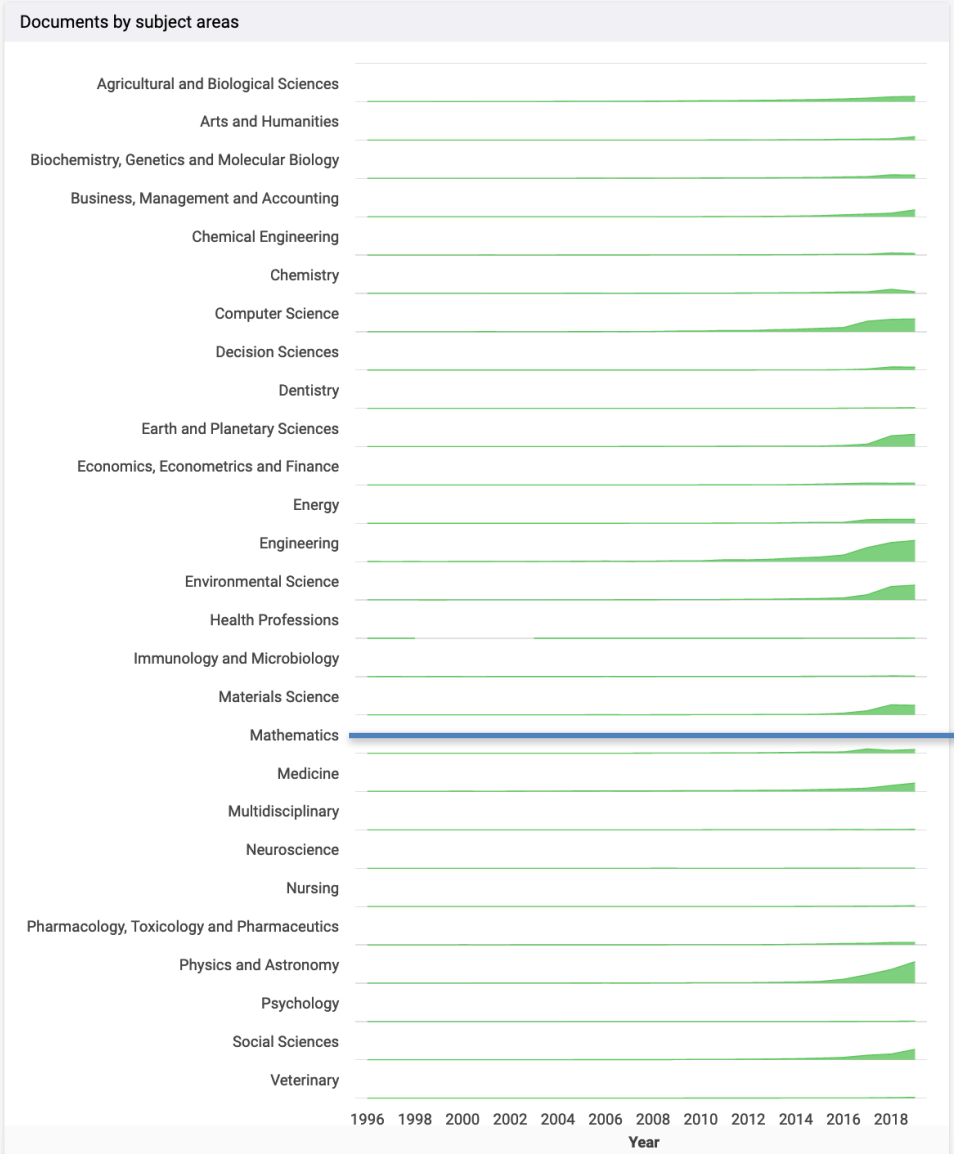

Output:
% of the World
% of BRIICS
% of Asiatic Region
4
3.2
2.4
1.6
0.8
0
1996
1999
2002
2005
2008
2011
2014
2017

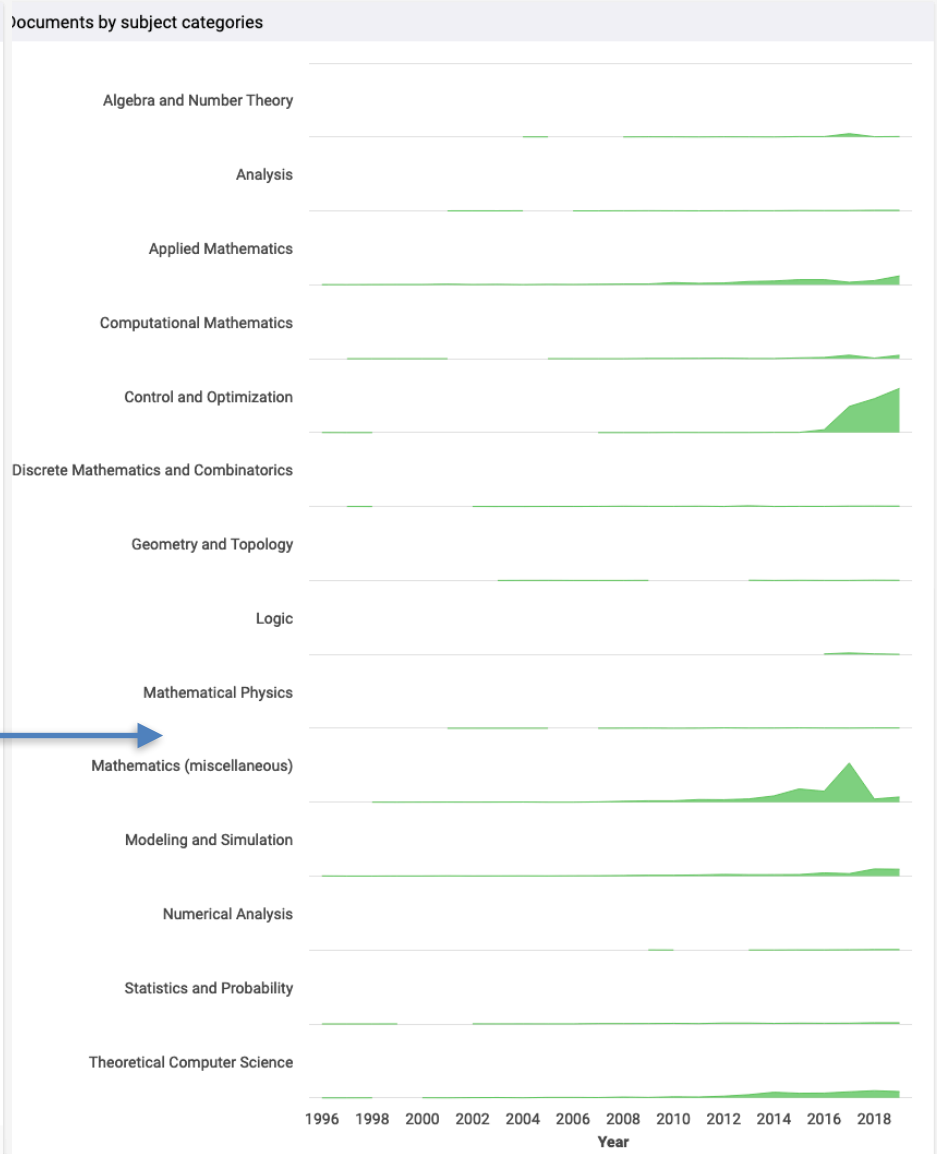

Output:
% of the World
% of BRIICS
% of Asiatic Region
3.5
2.8
2.1
1.4
0.7
0
1996
1999
2002
2005
2008
2011
2014
2017


% International Collaboration
90
60
30
0
1996
1999
2002
2005
2008
2011
2014
2017

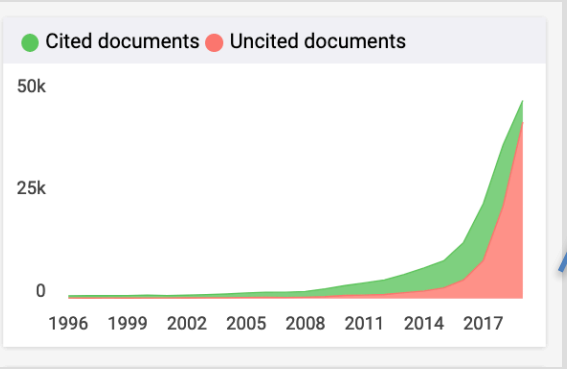
% International Collaboration
80
40
0
1996
1999
2002
2005
2008
2011
2014
2017

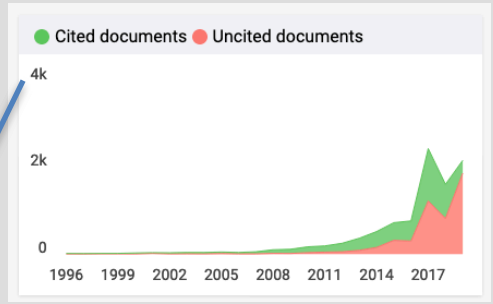
Mathematics

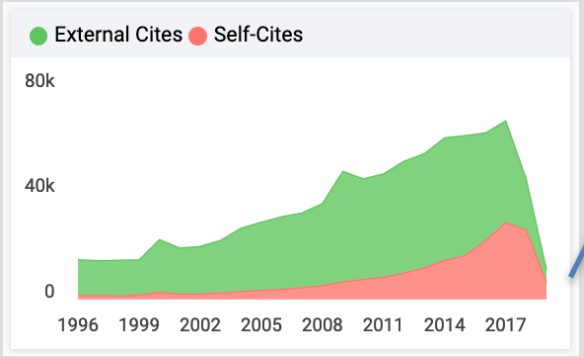

Documents by subject areas
Agricultural and Biological Sciences
Arts and Humanities
Biochemistry, Genetics and Molecular Biology
Business, Management and Accounting
Chemical Engineering
Chemistry
Computer Science
Decision Sciences
Dentistry
Earth and Planetary Sciences
Economics, Econometrics and Finance
Energy
Engineering
Environmental Science
Health Professions
Immunology and Microbiology
Materials Science
Mathematics
Medicine
Multidisciplinary
Neuroscience
Nursing
Pharmacology, Toxicology and Pharmaceutics
Physics and Astronomy
Psychology
Social Sciences
Veterinary
1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018
Year

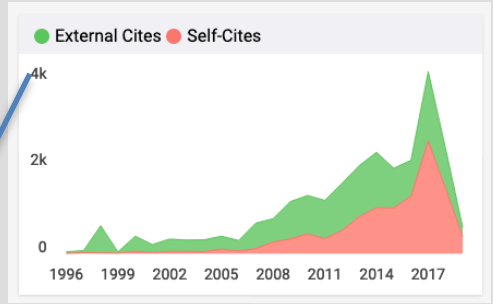

Documents by subject categories
Algebra and Number Theory
Analysis
Applied Mathematics
Computational Mathematics
Control and Optimization
Discrete Mathematics and Combinatorics
Geometry and Topology
Logic
Mathematical Physics
Mathematics (miscellaneous)
Modeling and Simulation
Numerical Analysis
Statistics and Probability
Theoretical Computer Science
1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018
Year

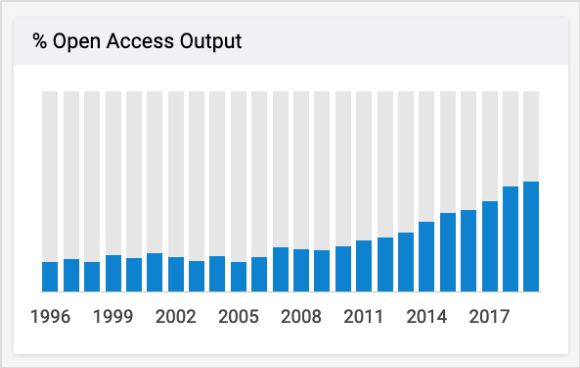
Citations

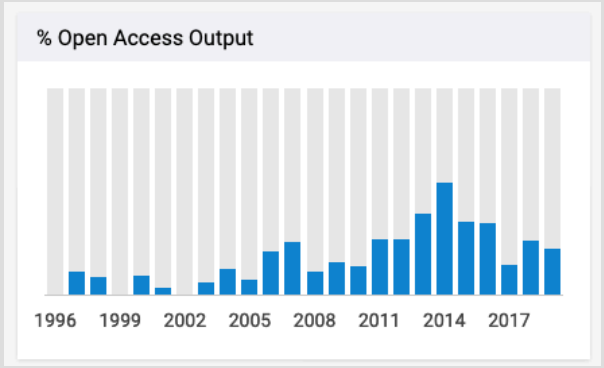

Cited documents
Uncited documents
50k
25k
0
1996
1999
2002
2005
2008
2011
2014
2017

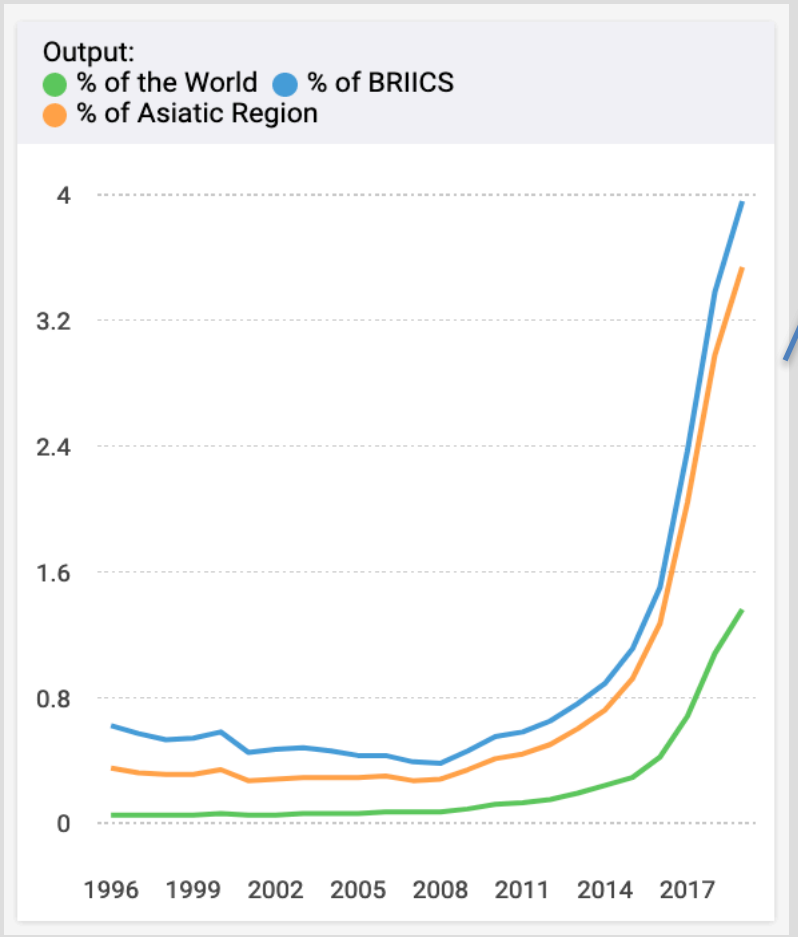

Cited documents
Uncited documents
4k
2k
0
1996
1999
2002
2005
2008
2011
2014
2017

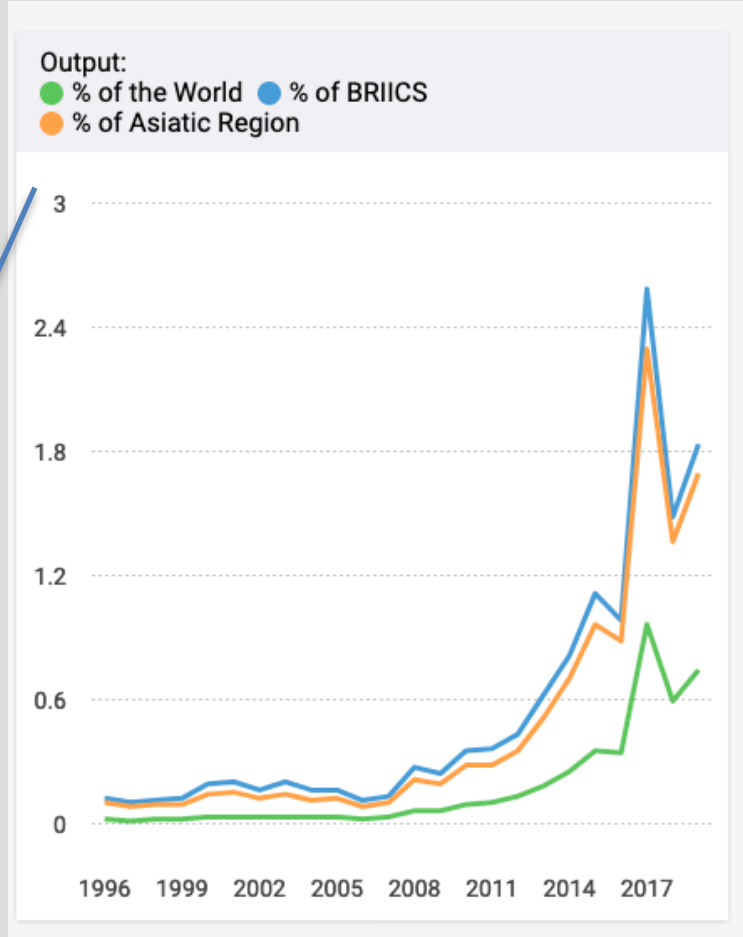

External Cites
Self-Cites
80k
40k
0
1996
1999
2002
2005
2008
2011
2014
2017


External Cites
Self-Cites
4k
2k
0
1996
1999
2002
2005
2008
2011
2014
2017


% Open Access Output
1996
1999
2002
2005
2008
2011
2014
2017

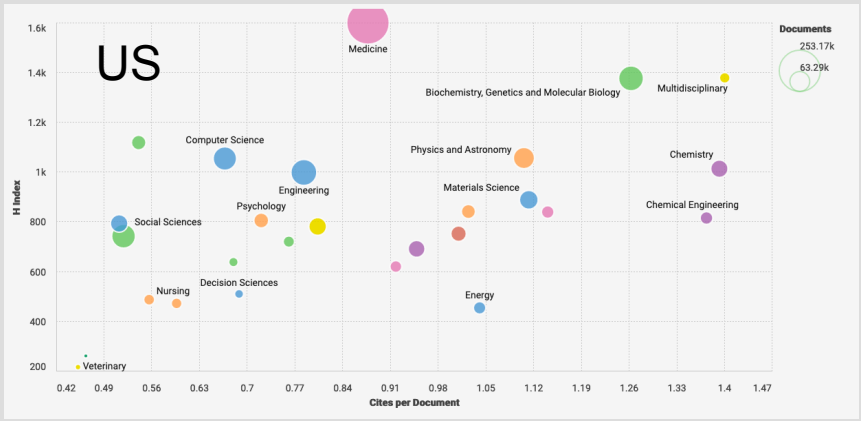

% Open Access Output
1996
1999
2002
2005
2008
2011
2014
2017

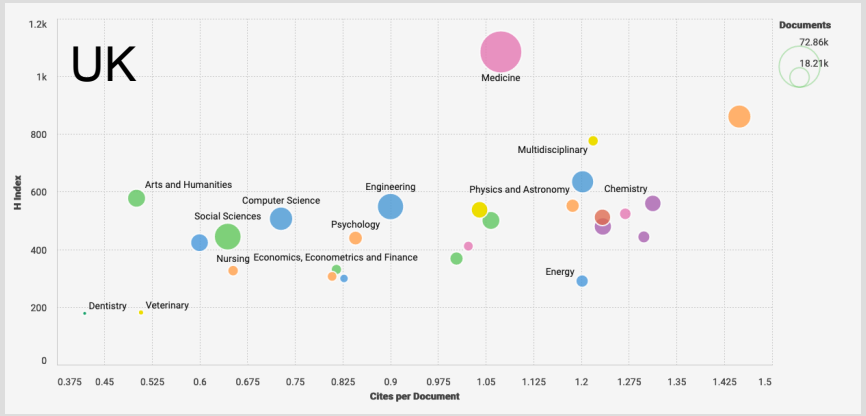

Output:
% of the World
% of BRIICS
% of Asiatic Region
4
3.2
2.4
1.6
0.8
0
1996
1999
2002
2005
2008
2011
2014
2017


Output:
% of the World
% of BRIICS
% of Asiatic Region
3
2.4
1.8
1.2
0.6
0
1996
1999
2002
2005
2008
2011
2014
2017

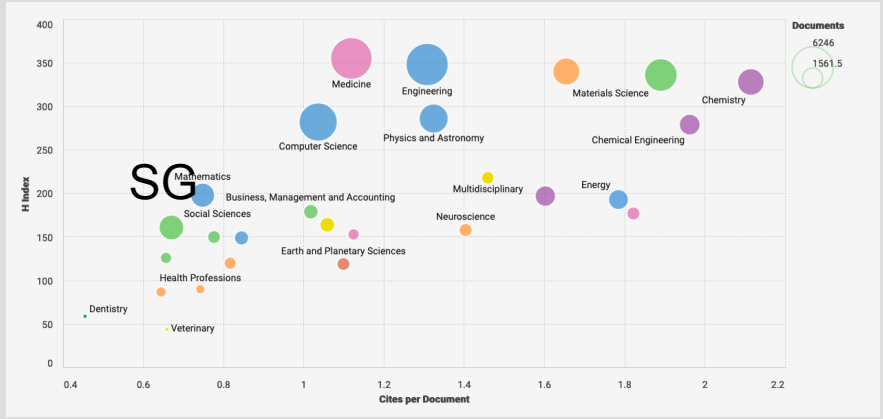
H index and cites per doc

Scimagojr -> VizTools -> Bubble chart


US
Documents
253.17k
63.29k
H Index
Cites per Document
Medicine
Biochemistry, Genetics and Molecular Biology
Multidisciplinary
Computer Science
Physics and Astronomy
Chemistry
Engineering
Materials Science
Psychology
Chemical Engineering
Social Sciences
Decision Sciences
Nursing
Energy
Veterinary

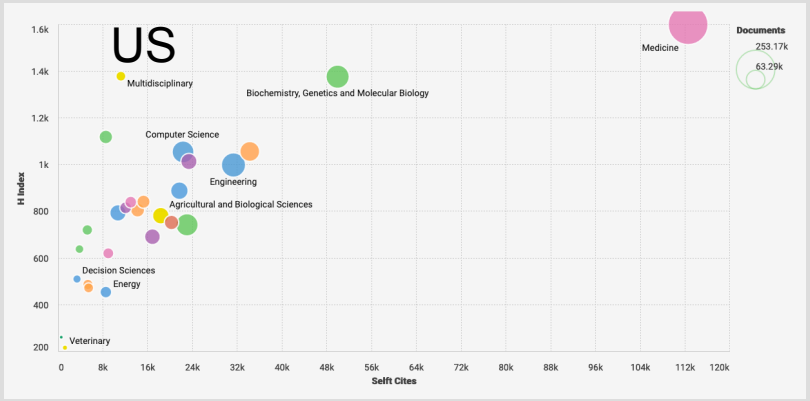

UK
Documents
72.86k
18.21k
H Index
Cites per Document
Medicine
Multidisciplinary
Arts and Humanities
Engineering
Physics and Astronomy
Chemistry
Computer Science
Social Sciences
Psychology
Nursing
Economics, Econometrics and Finance
Energy
Dentistry
Veterinary

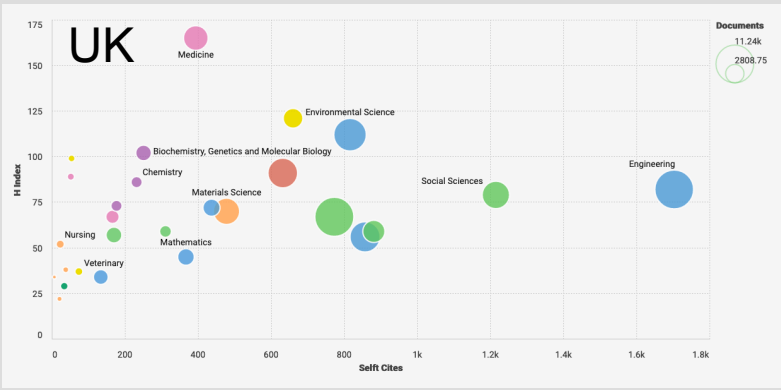
ID
Documents
11.24k
2808.75
H Index
Cites per Document
Medicine
Environmental Science
Agricultural and Biological Sciences
Multidisciplinary
Engineering
Social Sciences
Chemistry
Energy
Economics, Econometrics and Finance
Mathematics
Psychology
Decision Sciences
Neuroscience
Health Professions

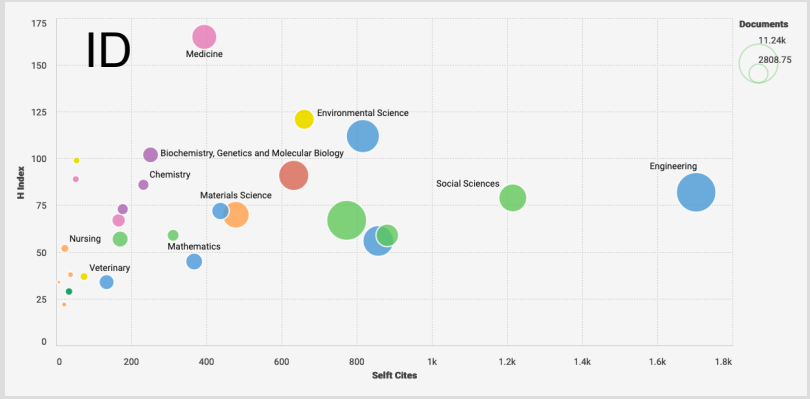

SG
Documents
6246
1561.5
H Index
Cites per Document
Medicine
Engineering
Materials Science
Chemistry
Computer Science
Physics and Astronomy
Chemical Engineering
Mathematics
Business, Management and Accounting
Multidisciplinary
Energy
Social Sciences
Neuroscience
Earth and Planetary Sciences
Health Professions
Dentistry
Veterinary

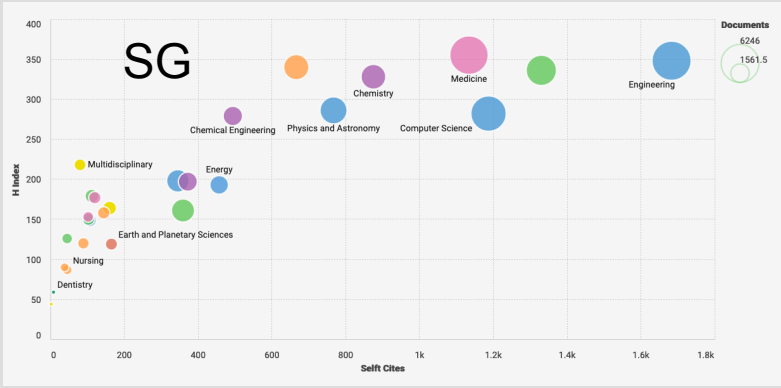
H index and self cites

Scimagojr -> VizTools -> Bubble chart


US
Documents
253.17k
63.29k
Medicine
Multidisciplinary
Biochemistry, Genetics and Molecular Biology
Computer Science
Engineering
Agricultural and Biological Sciences
Decision Sciences
Energy
Veterinary
H Index
Self Cites
1.6k
1.4k
1.2k
1k
800
600
400
200
0
8k
16k
24k
32k
40k
48k
56k
64k
72k
80k
88k
96k
104k
112k
120k


UK
Documents
11.24k
2808.75
Medicine
Environmental Science
Biochemistry, Genetics and Molecular Biology
Chemistry
Materials Science
Social Sciences
Engineering
Nursing
Mathematics
Veterinary
H Index
Self Cites
175
150
125
100
75
50
25
0
200
400
600
800
1k
1.2k
1.4k
1.6k
1.8k


ID
Documents
11.24k
2808.75
Medicine
Environmental Science
Biochemistry, Genetics and Molecular Biology
Chemistry
Materials Science
Social Sciences
Engineering
Nursing
Mathematics
Veterinary
H Index
Self Cites
175
150
125
100
75
50
25
0
200
400
600
800
1k
1.2k
1.4k
1.6k
1.8k


SG
Documents
6246
1561.5
Medicine
Chemistry
Engineering
Chemical Engineering
Physics and Astronomy
Computer Science
Multidisciplinary
Energy
Earth and Planetary Sciences
Nursing
Dentistry
H Index
Self Cites
400
350
300
250
200
150
100
50
0
200
400
600
800
1k
1.2k
1.4k
1.6k
1.8k